

Data File : VV010411.D
Acq On : 22 Apr 2019 13:07
Operator : SY/MD
Sample : VSTD00578
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Quant Time: Apr 22 14:04:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 22 14:00:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	502323	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	483979	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	245836	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38704	6.07	ug/L	0.00
7) Chloroethane-d5	1.57	69	29921	5.58	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	73276	4.76	ug/L	0.00
20) 2-Butanone-d5	3.94	46	10399	5.23	ug/L	0.00
24) Chloroform-d	4.40	84	61405	4.65	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	39019	5.01	ug/L	0.00
29) Benzene-d6	5.10	84	117966	4.76	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.11	67	33966	4.68	ug/L	0.00
37) Toluene-d8	7.36	98	117441	4.93	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	14908	4.18	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	11254	6.97	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	29274	4.04	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	46060	4.77	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	42073	5.522 ug/L	99
3) Chloromethane	1.25	50	34656	5.234 ug/L	99
5) Vinyl chloride	1.32	62	41373	5.981 ug/L	98
6) Bromomethane	1.51	94	19490	4.405 ug/L	98
8) Chloroethane	1.59	64	23686	5.372 ug/L	100
9) Trichlorofluoromethane	1.76	101	68478	4.820 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	39447	5.271 ug/L	96
12) 1,1-Dichloroethene	2.13	96	34847	5.340 ug/L	94
13) Acetone	2.19	43	20032	9.556 ug/L	97
14) Carbon disulfide	2.31	76	79635	4.947 ug/L	96
15) Methyl Acetate	2.46	43	12741	3.723 ug/L	94
16) Methylene chloride	2.53	84	41547	5.178 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	77491	4.931 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	30556	4.936 ug/L	95
19) 1,1-Dichloroethane	3.23	63	52641	4.978 ug/L	98
21) 2-Butanone	4.02	43	17792	7.829 ug/L	91
22) cis-1,2-Dichloroethene	3.96	96	32485	4.607 ug/L	95
23) Bromochloromethane	4.29	128	7813	2.214 ug/L	96
25) Chloroform	4.42	83	63730	5.172 ug/L	99
27) 1,2-Dichloroethane	5.18	62	43963	4.993 ug/L	99
30) Cyclohexane	4.72	56	49632	5.595 ug/L #	89
31) 1,1,1-Trichloroethane	4.66	97	55498	5.201 ug/L	98
32) Carbon tetrachloride	4.87	117	51929	5.158 ug/L	98
34) Benzene	5.14	78	120527	5.103 ug/L	100
35) Trichloroethene	5.96	95	35476	5.077 ug/L	98
36) Methylcyclohexane	6.17	83	54269	5.334 ug/L	99
40) 1,2-Dichloropropane	6.22	63	27281	4.504 ug/L #	97
41) Bromodichloromethane	6.55	83	42818	5.037 ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	43360	4.746 ug/L	95
43) 4-Methyl-2-pentanone	7.27	43	40487	8.555 ug/L	96

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Quant Title : VOC Analysis
QLast Update : Mon Apr 22 14:00:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	132339	4.970	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	38116	4.475	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	23951	4.389	ug/L	95
47) Tetrachloroethene	8.02	164	30609	4.909	ug/L	93
49) 2-Hexanone	8.18	43	25760	7.776	ug/L	93
50) Dibromochloromethane	8.29	129	30790	4.595	ug/L	96
51) 1,2-Dibromoethane	8.40	107	25827	4.772	ug/L	99
52) Chlorobenzene	8.93	112	92702	5.004	ug/L	95
53) Ethylbenzene	9.05	91	154707	5.114	ug/L	99
54) m,p-Xylene	9.18	106	57427	4.904	ug/L	95
55) o-xylene	9.59	106	59219	5.244	ug/L	96
56) Styrene	9.60	104	92431	4.793	ug/L	98
57) Isopropylbenzene	9.97	105	154582	5.137	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	29262	4.147	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	22611	4.425	ug/L	98
62) Bromoform	9.78	173	17350	4.565	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	74698	4.982	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	76969	4.979	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	70063	4.840	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	4545	3.929	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	57440	4.606	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	39505	3.964	ug/L	98
69) Naphthalene	13.55	128	56263	3.057	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	36920	3.813	ug/L	97

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

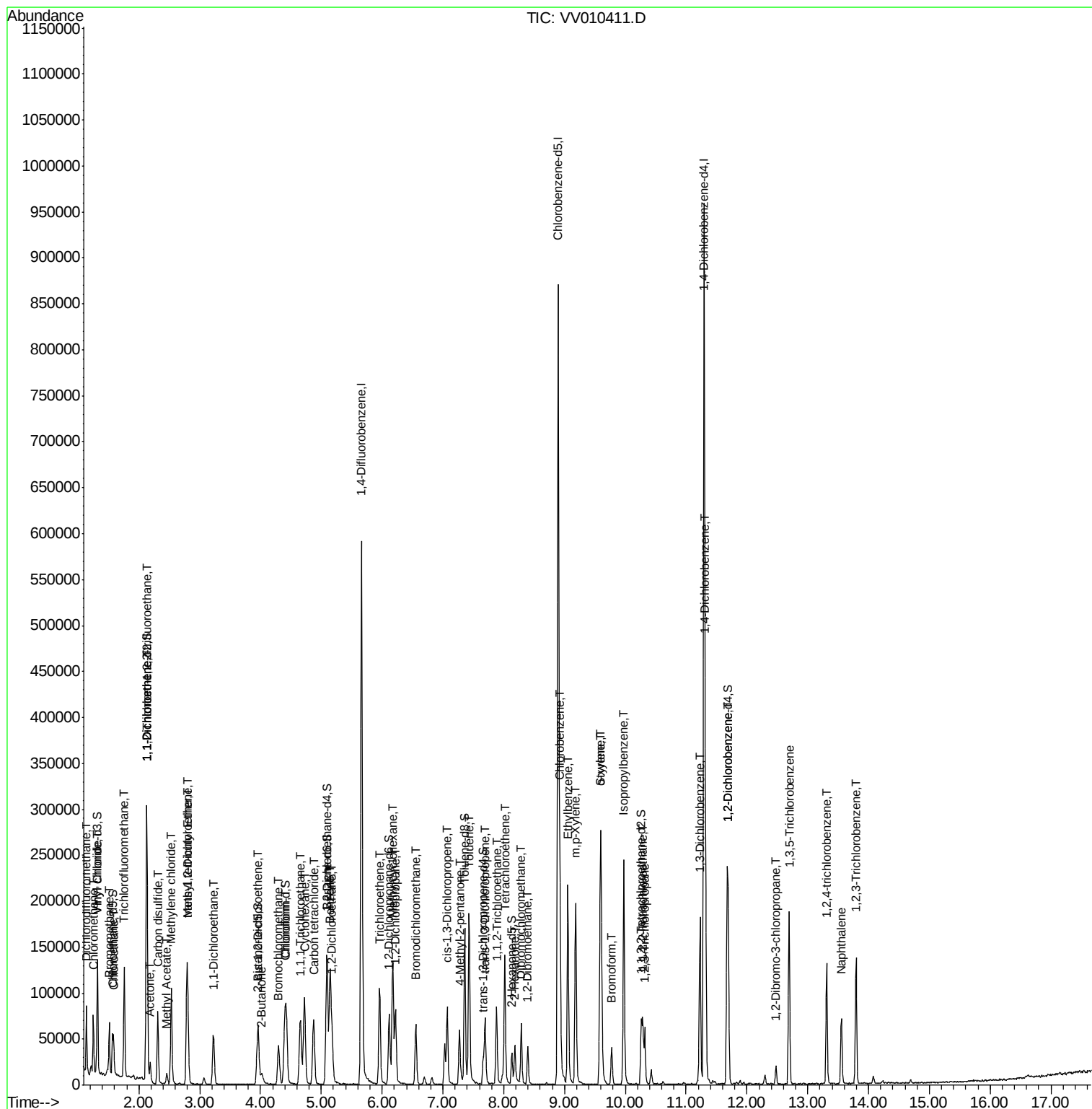
Quant Time: Apr 22 14:04:43 2019

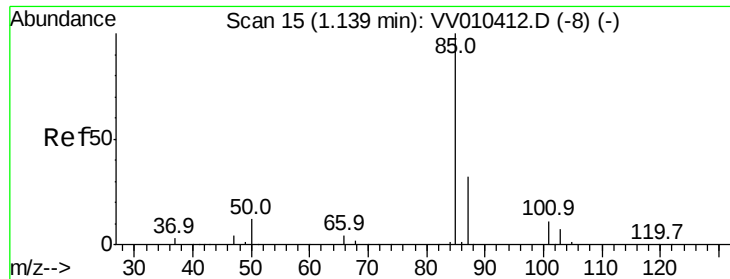
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM042219S.M

Quant Title : VOC Analysis

QLast Update : Mon Apr 22 14:00:39 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.522 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

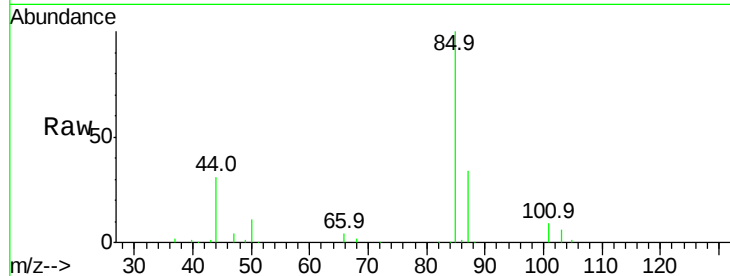
VSTD00578

Tgt Ion: 85 Resp: 42073

Ion Ratio Lower Upper

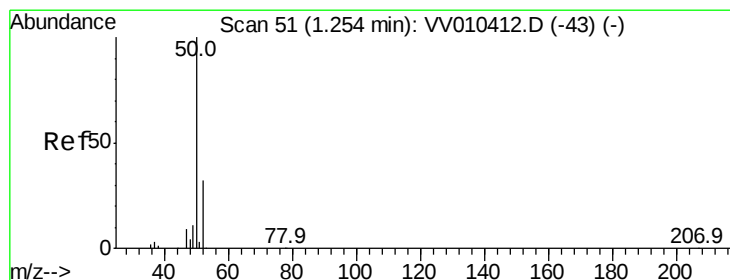
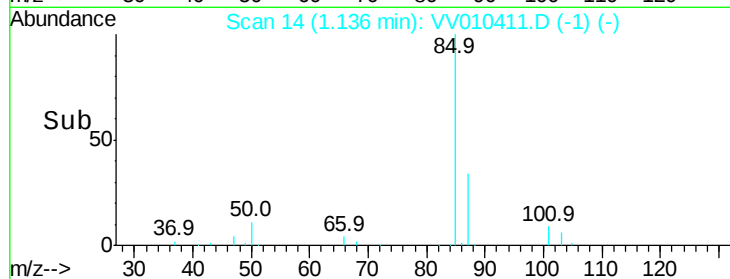
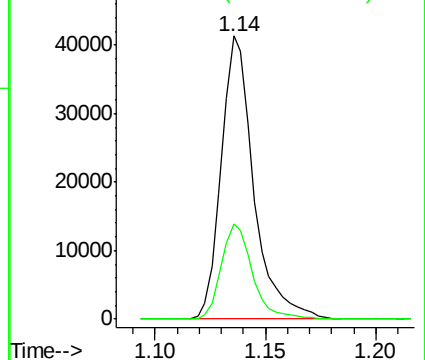
85 100

87 32.2 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.234 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010411.D

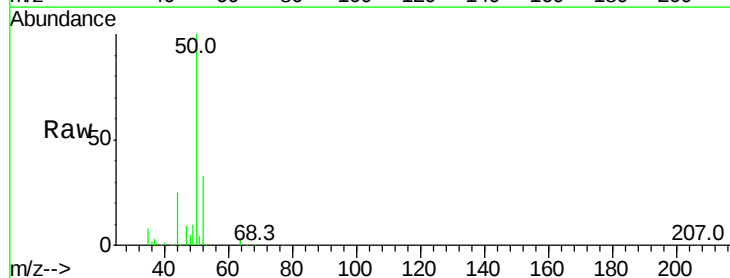
Acq: 22 Apr 2019 13:07

Tgt Ion: 50 Resp: 34656

Ion Ratio Lower Upper

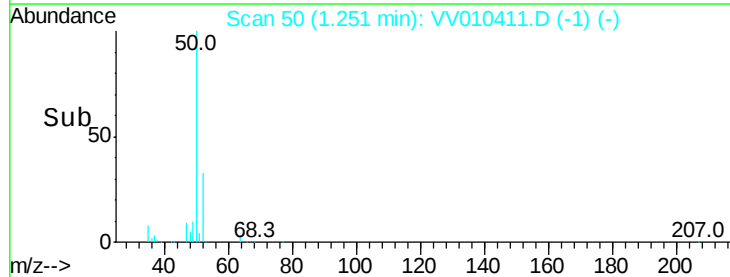
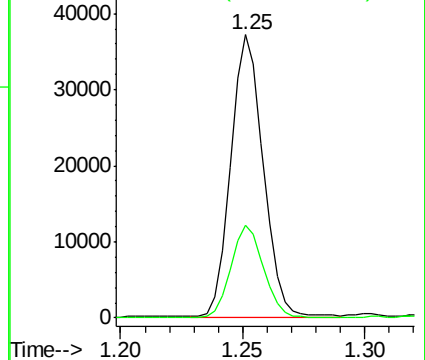
50 100

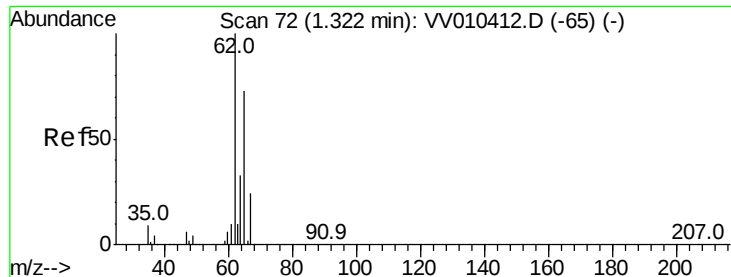
52 32.7 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 5.981 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

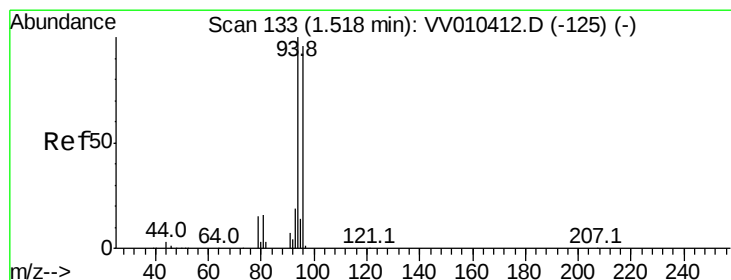
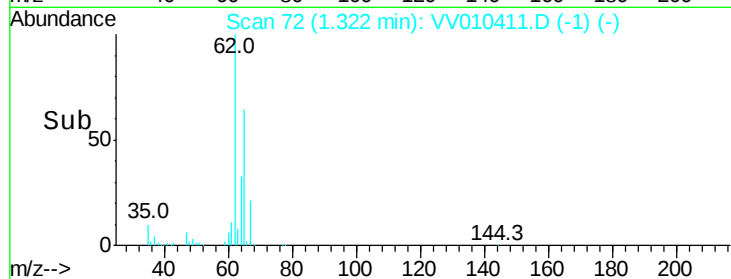
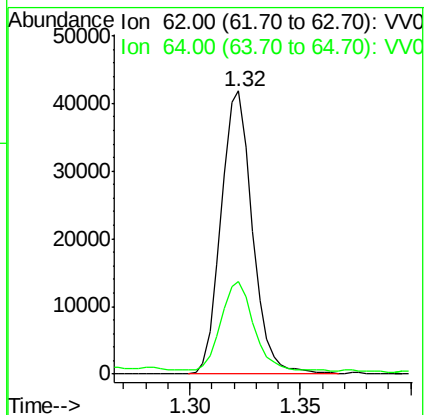
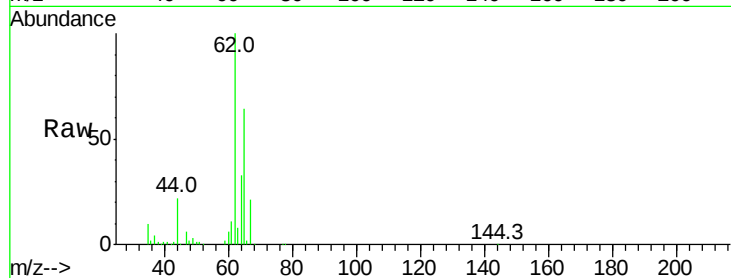
VSTD00578

Tgt Ion: 62 Resp: 41373

Ion Ratio Lower Upper

62 100

64 32.5 23.4 43.6



#6

Bromomethane

Concen: 4.405 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV010411.D

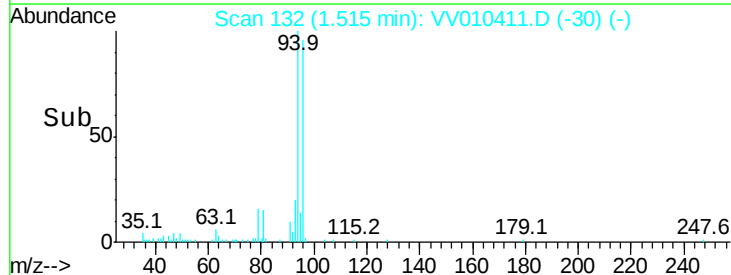
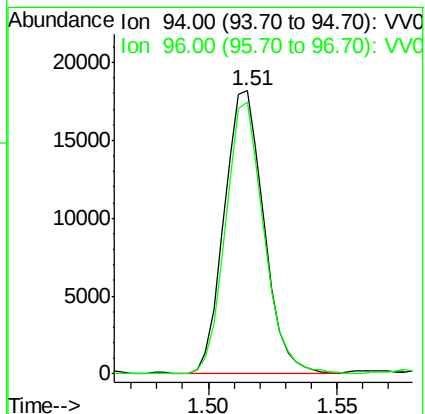
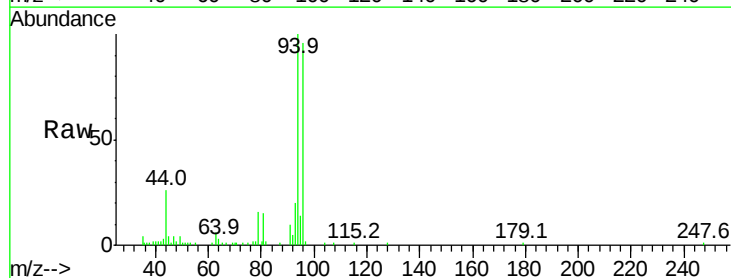
Acq: 22 Apr 2019 13:07

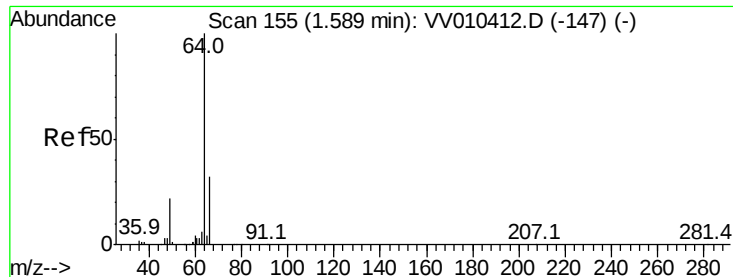
Tgt Ion: 94 Resp: 19490

Ion Ratio Lower Upper

94 100

96 92.8 9.5 180.3





#8

Chloroethane

Concen: 5.372 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

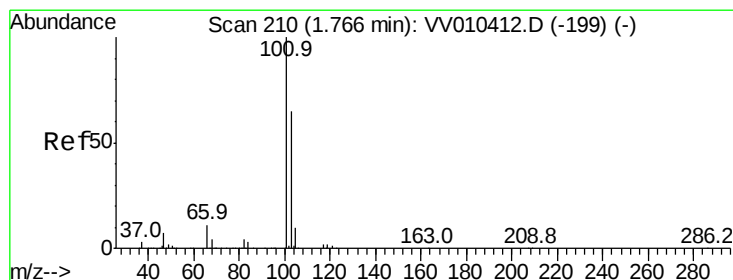
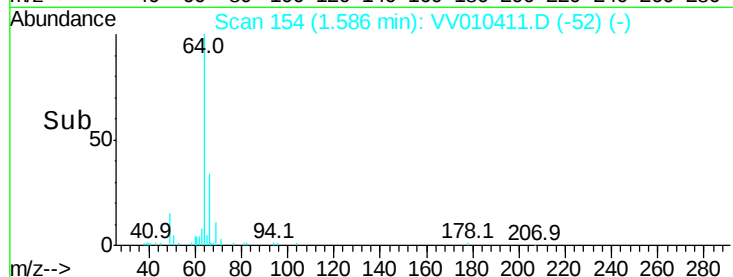
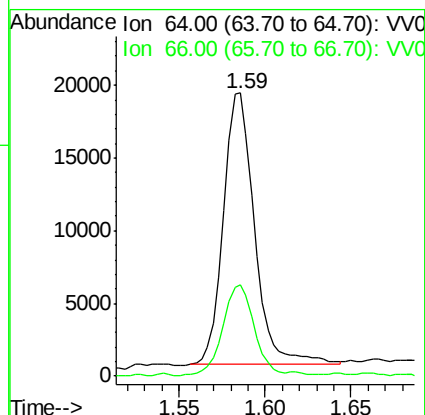
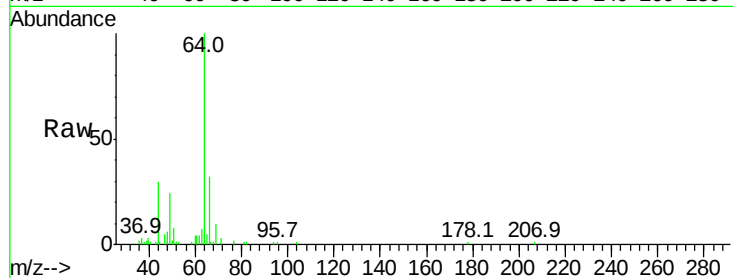
VSTD00578

Tgt Ion: 64 Resp: 23686

Ion Ratio Lower Upper

64 100

66 32.2 22.5 41.7



#9

Trichlorofluoromethane

Concen: 4.820 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.01 min

Lab File: VV010411.D

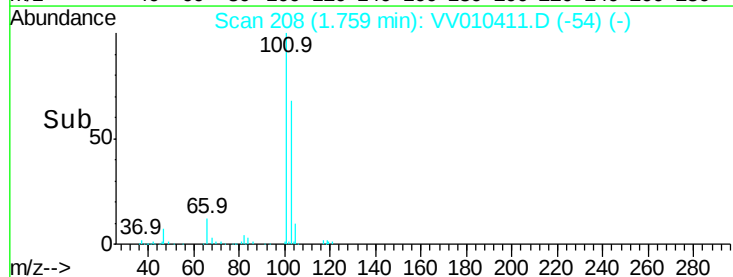
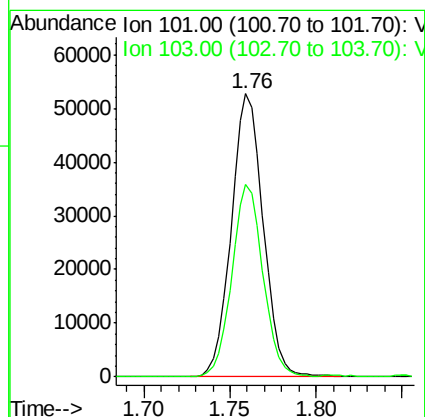
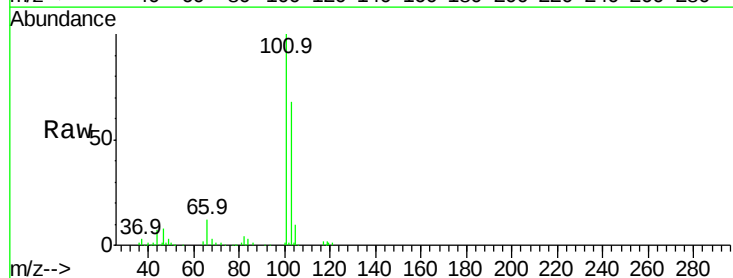
Acq: 22 Apr 2019 13:07

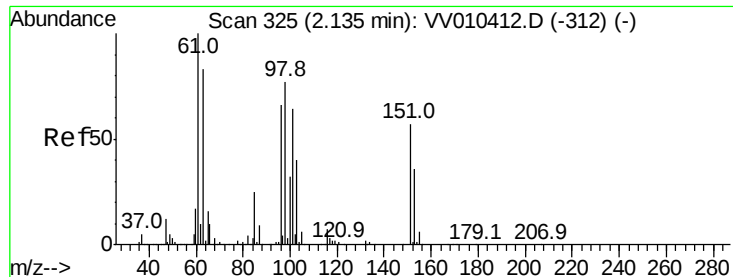
Tgt Ion: 101 Resp: 68478

Ion Ratio Lower Upper

101 100

103 66.2 45.4 84.2





#11

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

Concen: 5.271 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

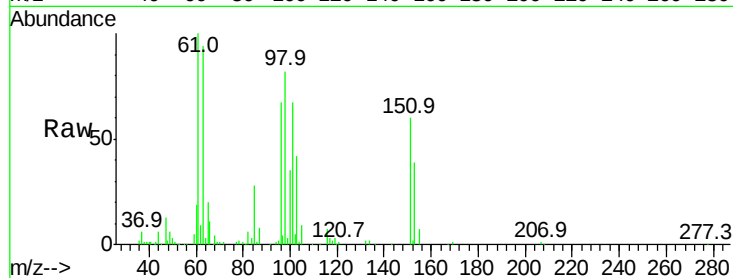
Tgt Ion:101 Resp: 39447

Ion Ratio Lower Upper

101 100

85 42.2 31.8 47.6

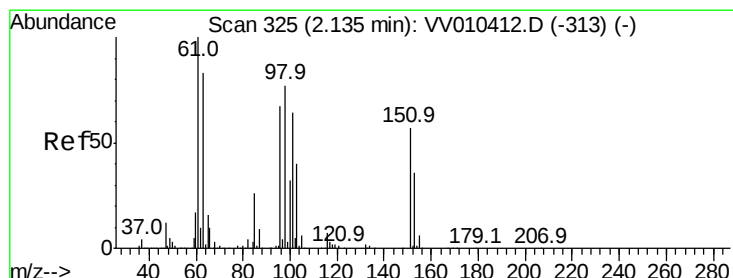
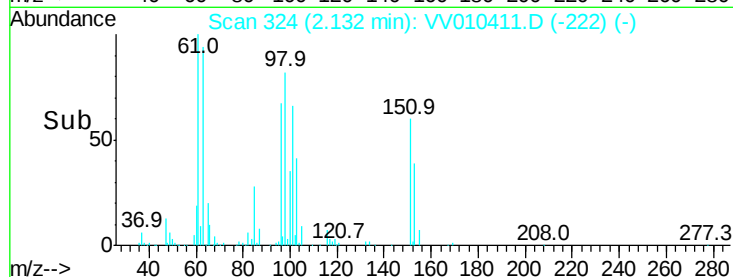
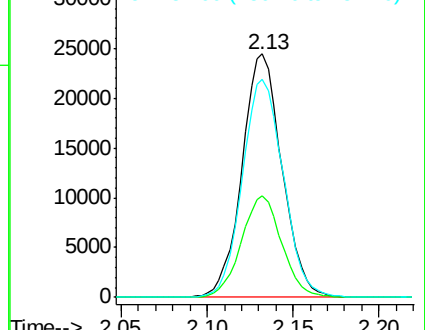
151 92.1 70.9 106.3



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: 5.340 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

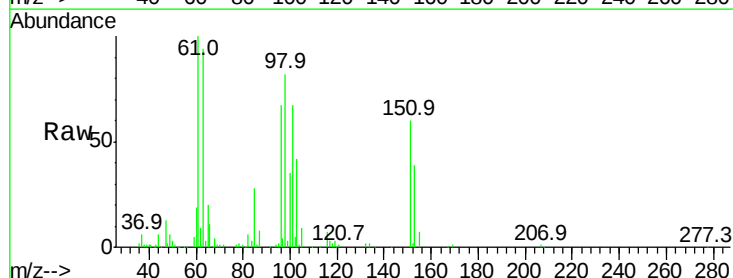
Tgt Ion: 96 Resp: 34847

Ion Ratio Lower Upper

96 100

61 149.5 105.3 195.5

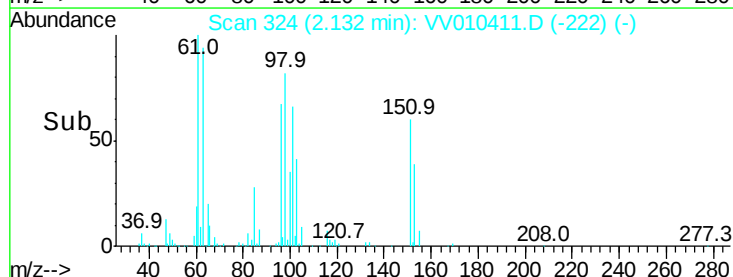
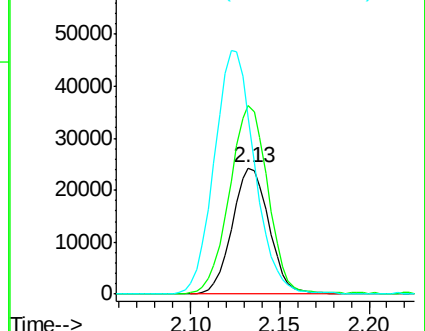
63 140.1 87.8 163.2

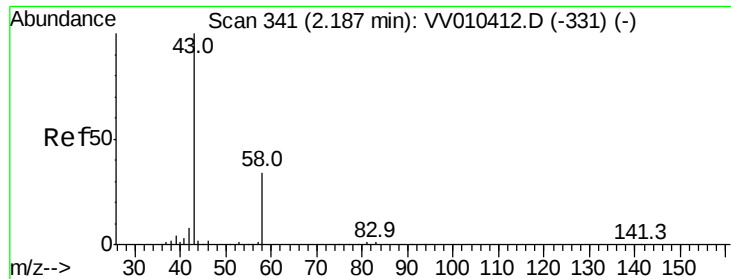


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.556 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

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ClientSampleId :

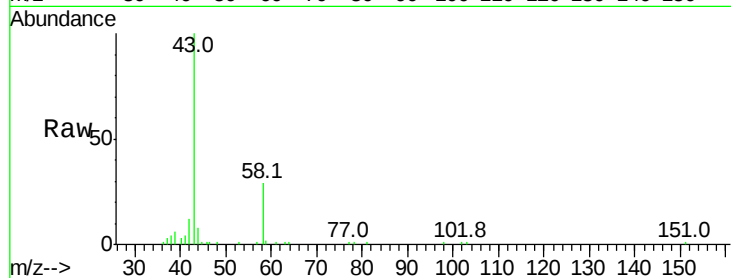
VSTD00578

Tgt Ion: 43 Resp: 20032

Ion Ratio Lower Upper

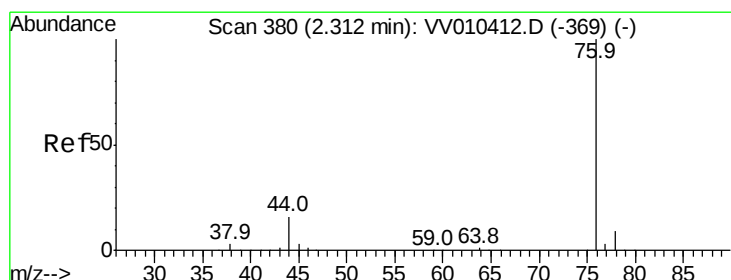
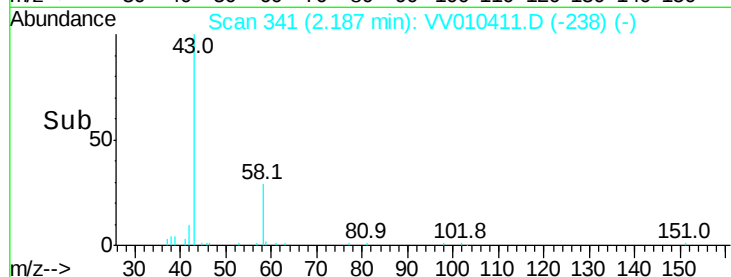
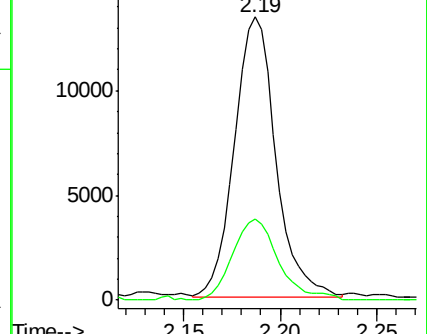
43 100

58 31.2 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 4.947 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV010411.D

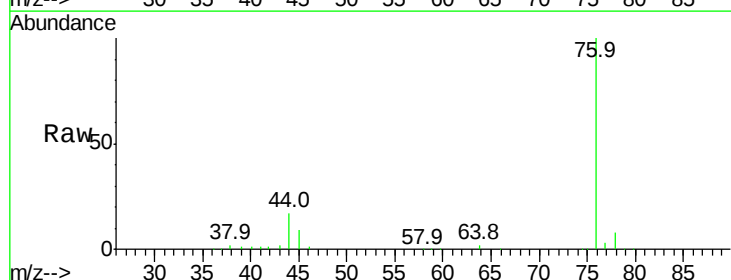
Acq: 22 Apr 2019 13:07

Tgt Ion: 76 Resp: 79635

Ion Ratio Lower Upper

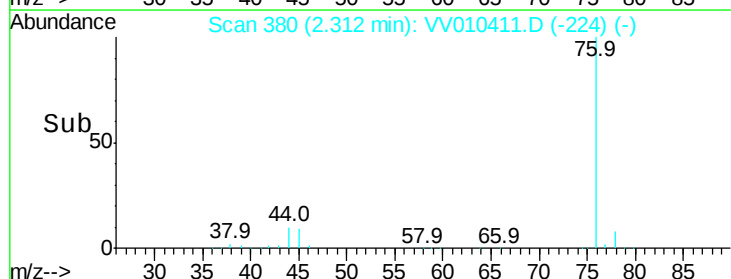
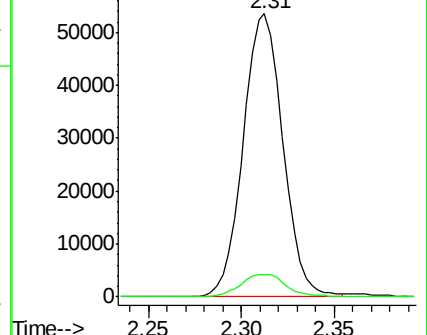
76 100

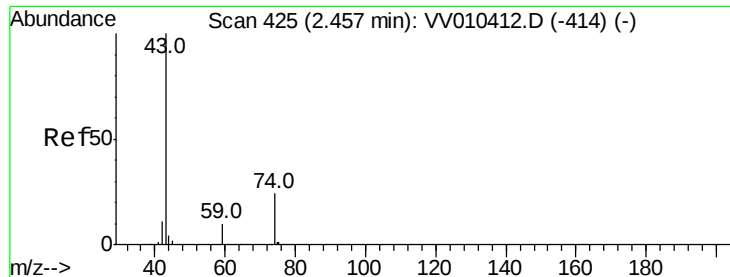
78 7.8 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

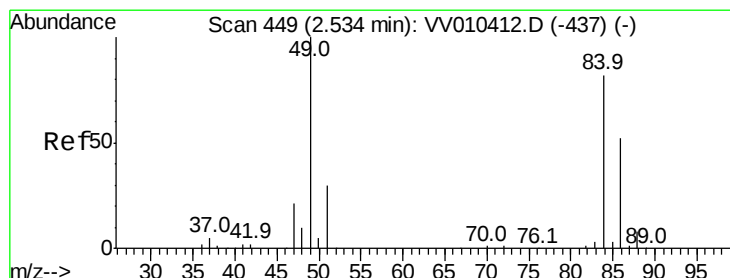
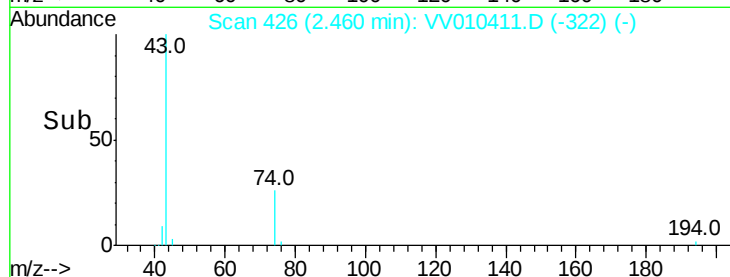
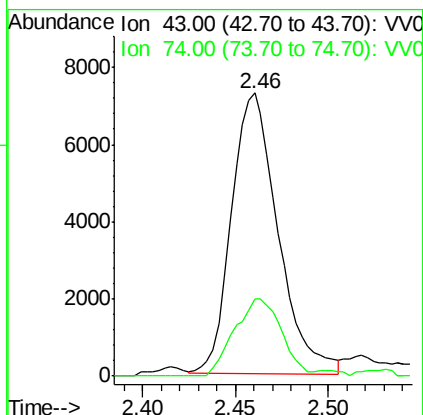
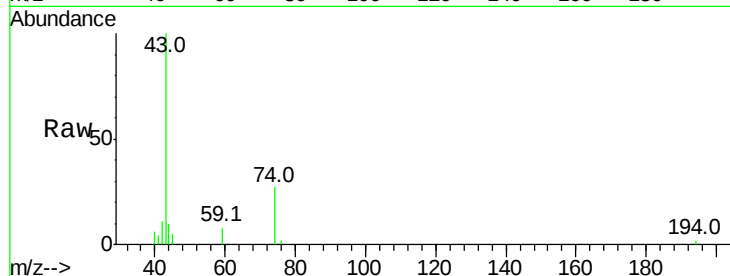




#15
Methyl Acetate
Concen: 3.723 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

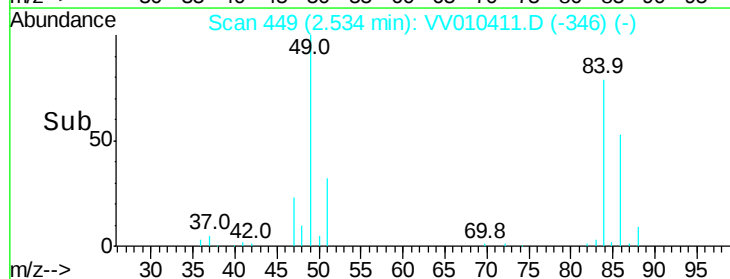
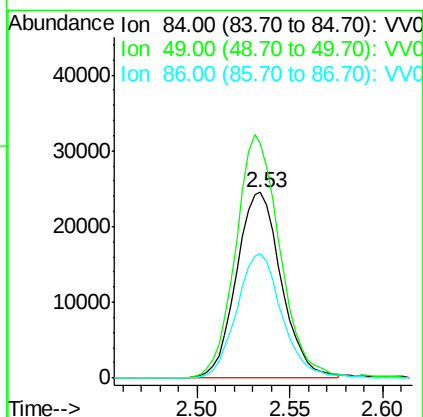
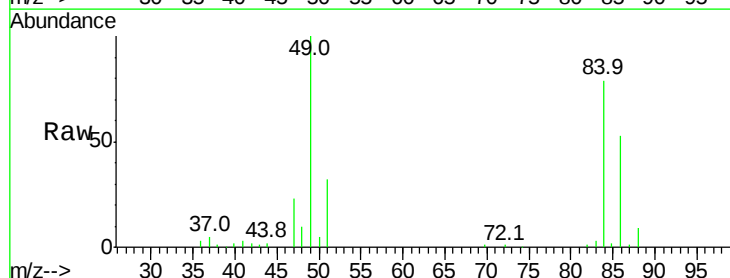
Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

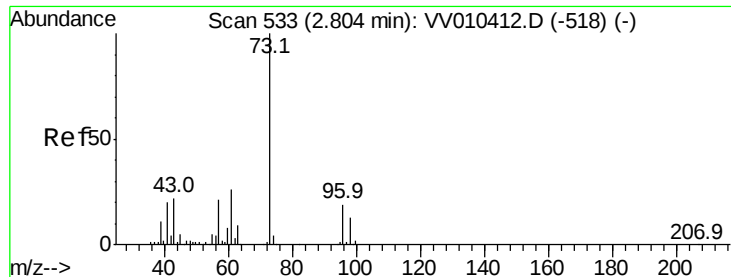
Tgt Ion: 43 Resp: 12741
Ion Ratio Lower Upper
43 100
74 27.8 19.8 29.6



#16
Methylene chloride
Concen: 5.178 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

Tgt Ion: 84 Resp: 41547
Ion Ratio Lower Upper
84 100
49 126.5 85.0 158.0
86 67.2 43.9 81.5





#17

Methyl tert-butyl Ether

Concen: 4.931 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

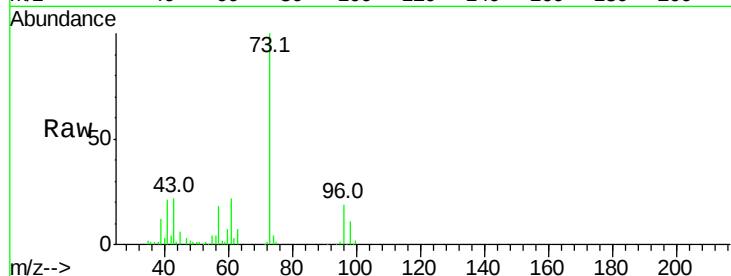
Tgt Ion: 73 Resp: 77491

Ion Ratio Lower Upper

73 100

43 22.9 16.8 25.2

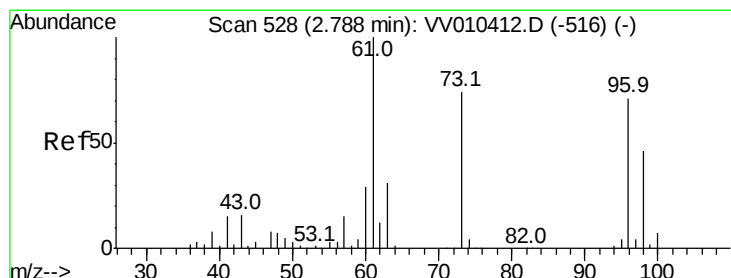
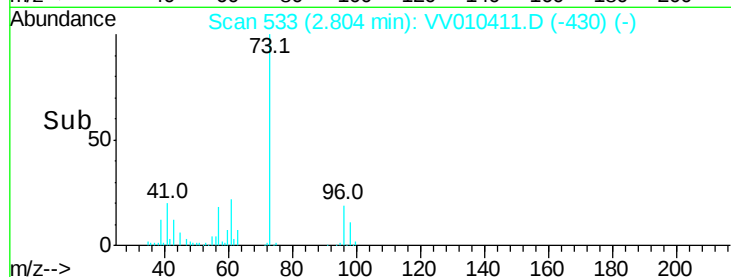
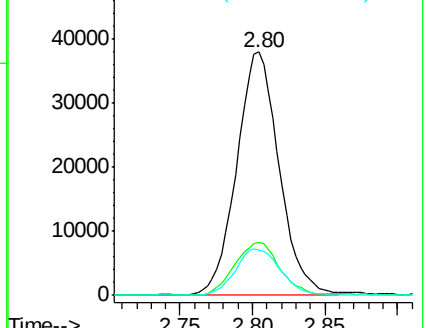
57 20.0 16.1 24.1



Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 4.936 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

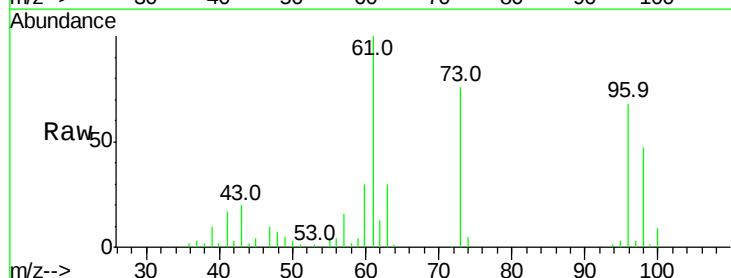
Tgt Ion: 96 Resp: 30556

Ion Ratio Lower Upper

96 100

61 146.5 98.6 183.0

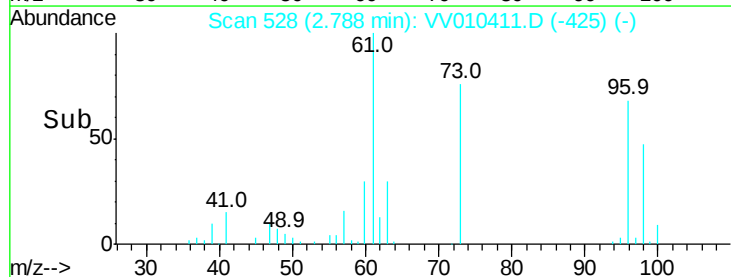
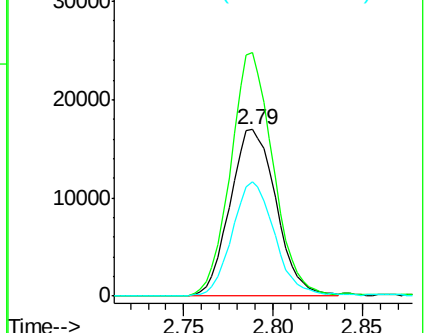
98 68.9 45.7 84.9

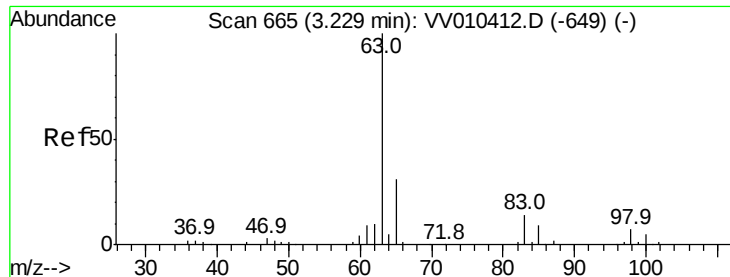


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

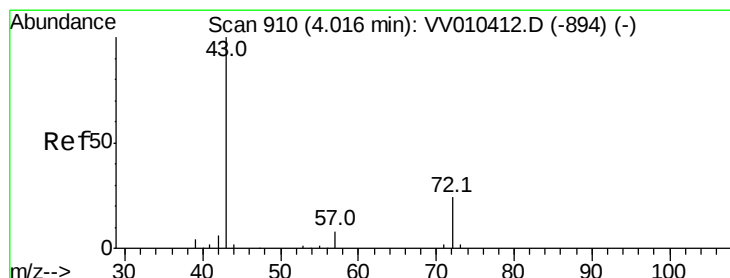
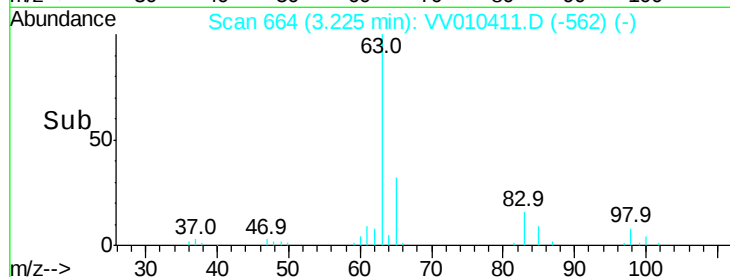
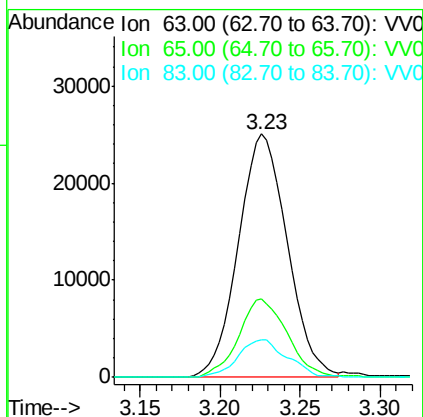
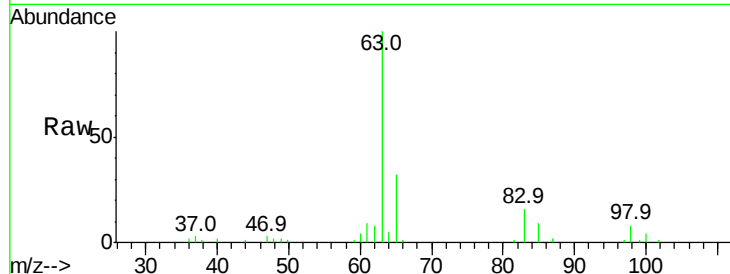




#19
 1,1-Dichloroethane
 Concen: 4.978 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

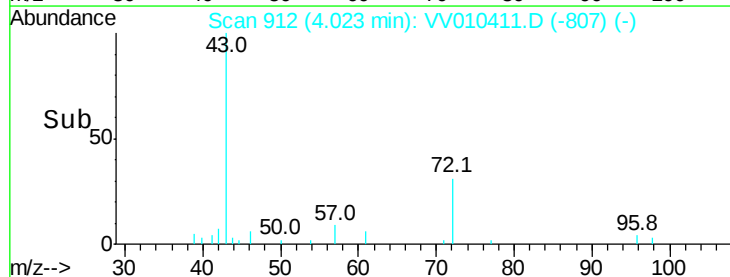
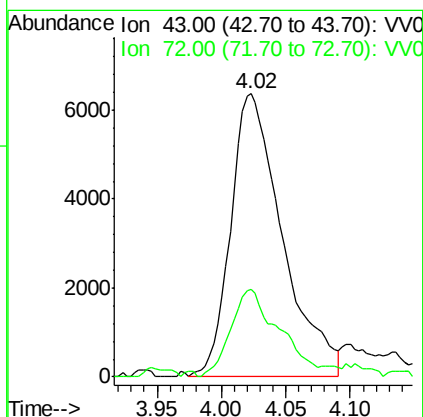
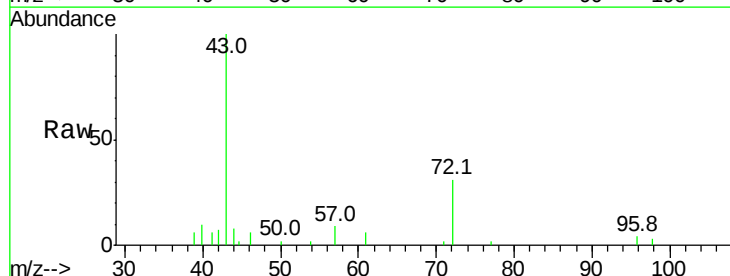
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

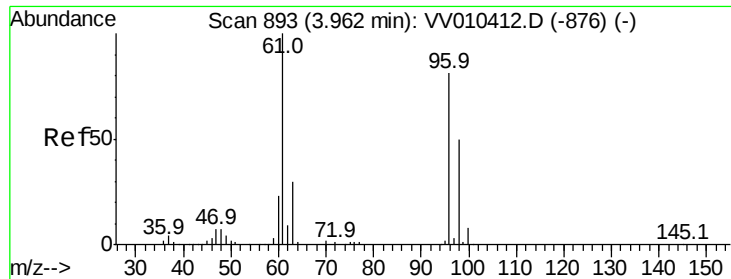
Tgt Ion: 63 Resp: 52641
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.0 41.0
 83 15.6 9.8 18.2



#21
 2-Butanone
 Concen: 7.829 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Tgt Ion: 43 Resp: 17792
 Ion Ratio Lower Upper
 43 100
 72 28.8 12.2 36.4



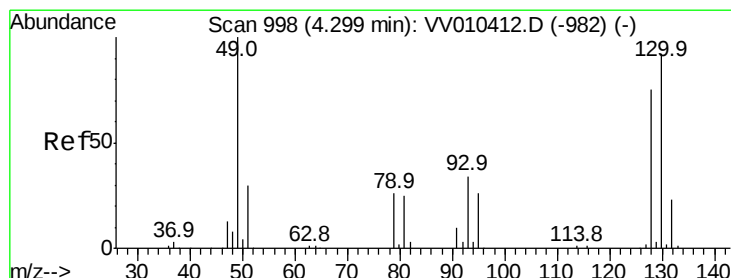
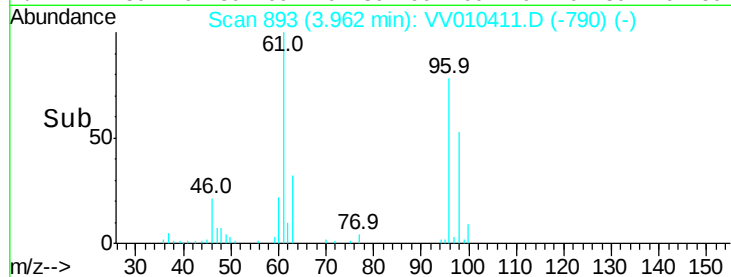
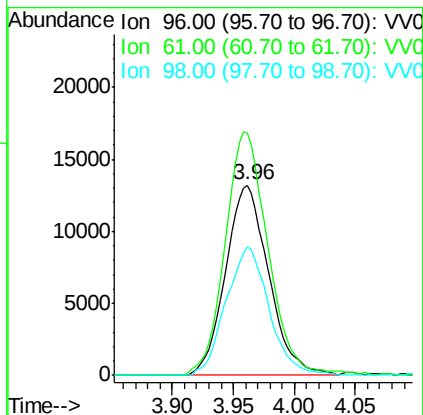
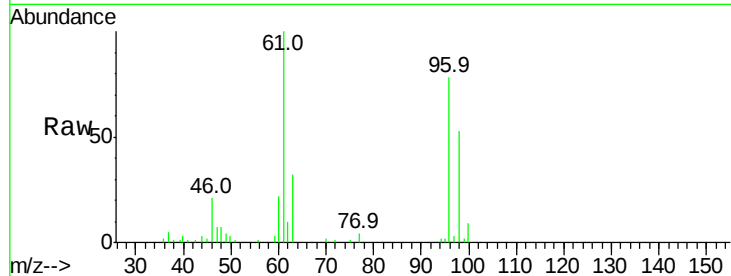


#22

cis-1,2-Dichloroethene
 Concen: 4.607 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

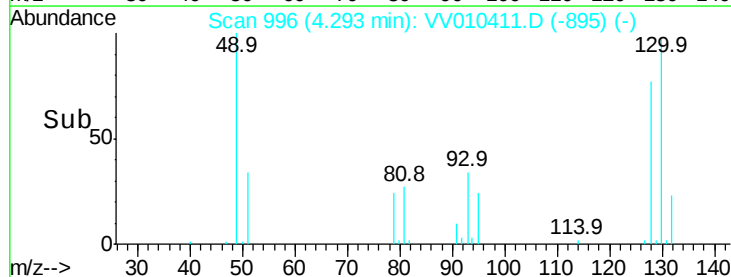
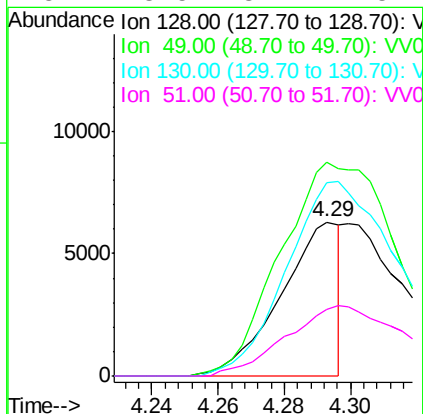
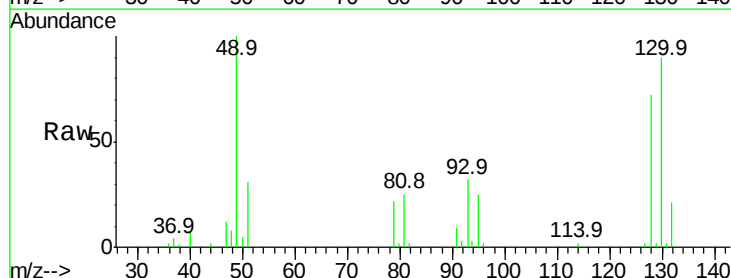
Tgt Ion: 96 Resp: 32485
 Ion Ratio Lower Upper
 96 100
 61 127.6 86.7 161.1
 98 67.6 43.5 80.7

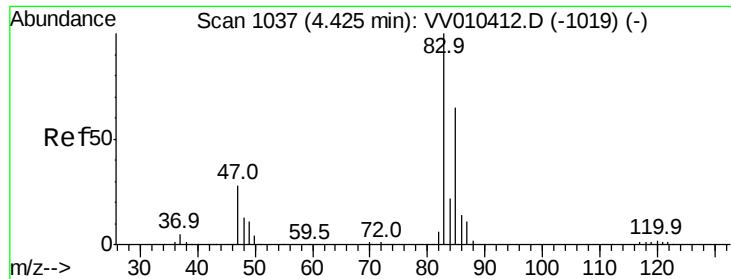


#23

Bromochloromethane
 Concen: 2.214 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Tgt Ion: 128 Resp: 7813
 Ion Ratio Lower Upper
 128 100
 49 139.0 93.7 174.1
 130 125.5 85.9 159.5
 51 43.5 32.2 48.4

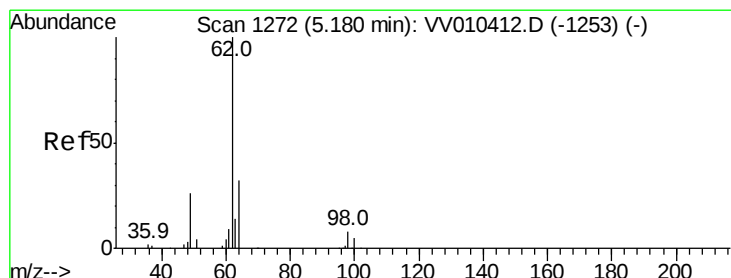
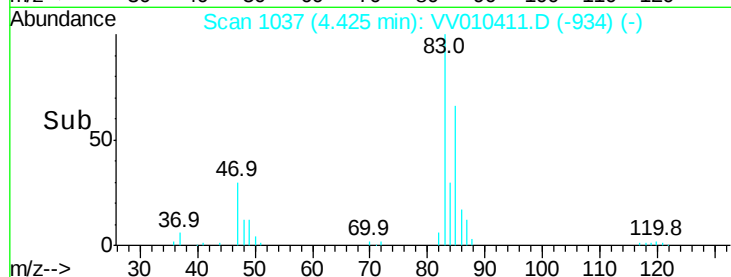
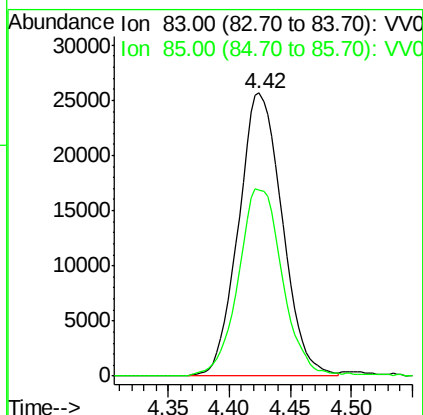
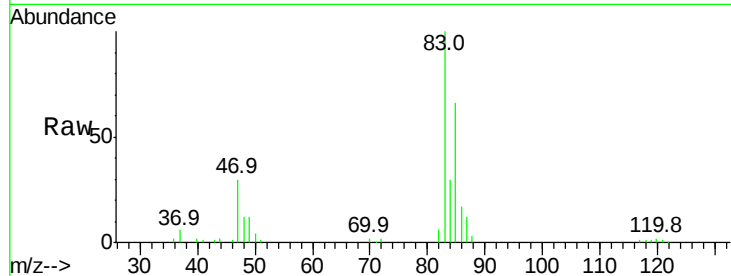




#25
Chloroform
Concen: 5.172 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

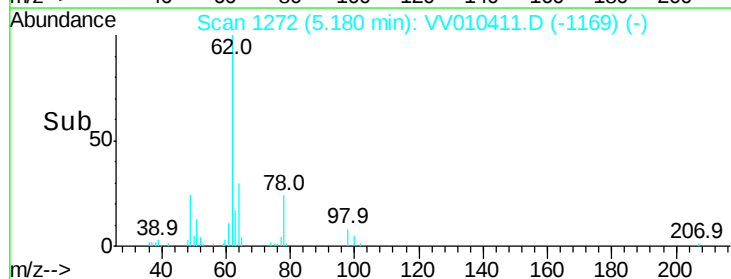
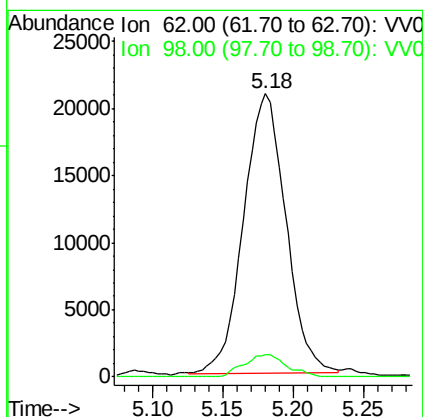
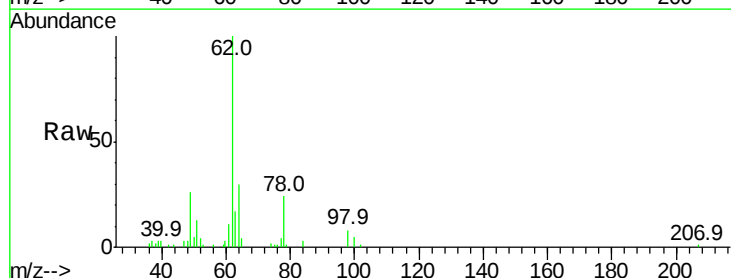
Instrument :
MSVOA_V
ClientSampled :
VSTD00578

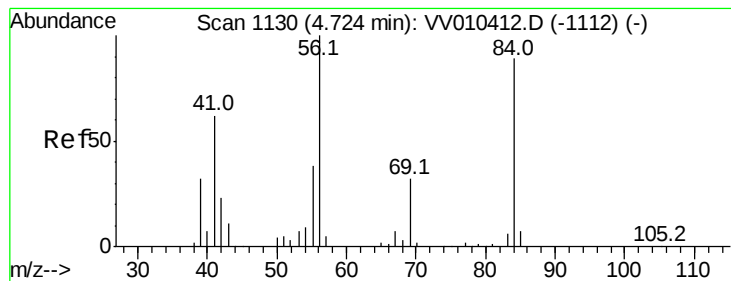
Tgt Ion: 83 Resp: 63730
Ion Ratio Lower Upper
83 100
85 66.5 46.1 85.5



#27
1,2-Dichloroethane
Concen: 4.993 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

Tgt Ion: 62 Resp: 43963
Ion Ratio Lower Upper
62 100
98 7.8 6.4 9.6





#30

Cyclohexane

Concen: 5.595 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

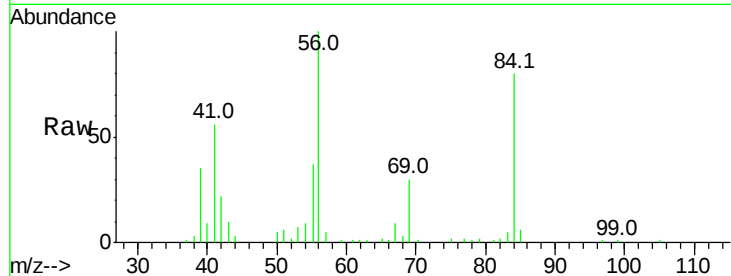
Tgt Ion: 56 Resp: 49632

Ion Ratio Lower Upper

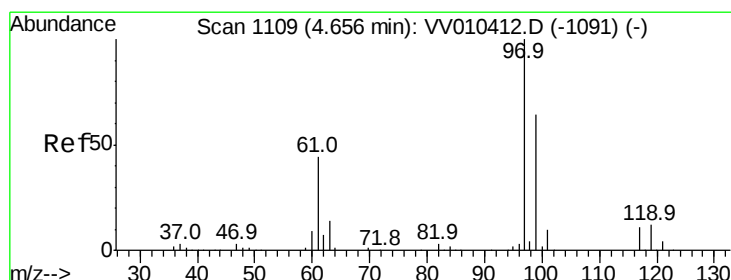
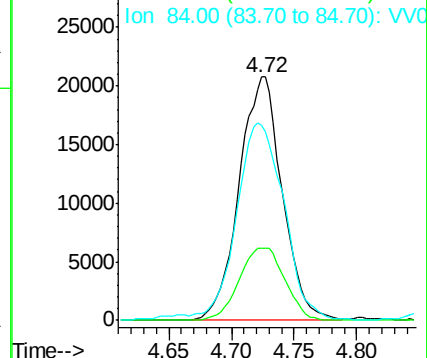
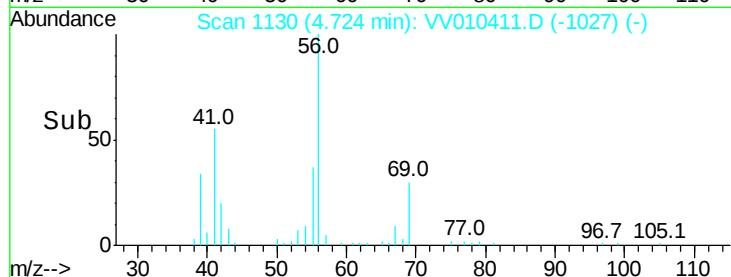
56 100

69 18.7 25.9 38.9#

84 87.3 74.2 111.4



Abundance Ion 56.00 (55.70 to 56.70): VV010411.D (-1027) (-)



#31

1,1,1-Trichloroethane

Concen: 5.201 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

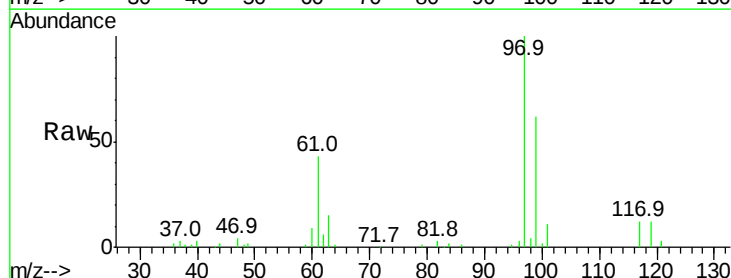
Tgt Ion: 97 Resp: 55498

Ion Ratio Lower Upper

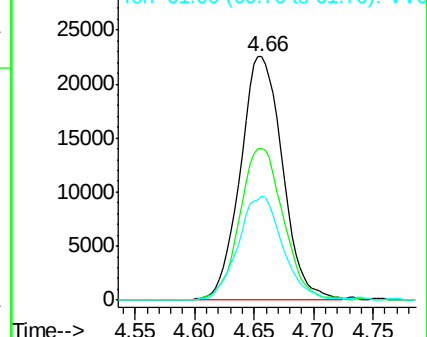
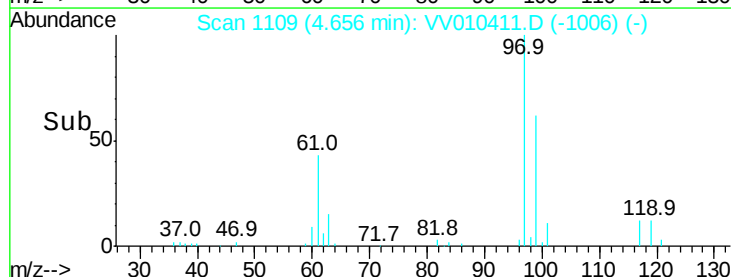
97 100

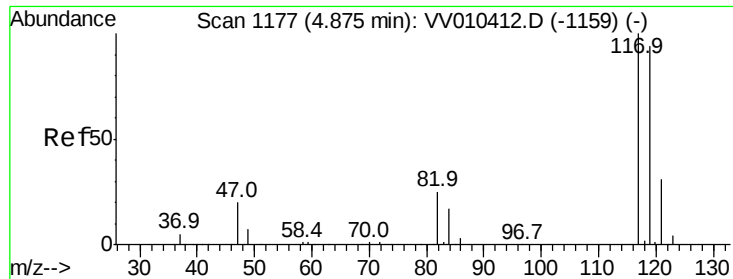
99 64.2 50.7 76.1

61 44.9 34.5 51.7



Abundance Ion 97.00 (96.70 to 97.70): VV010411.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 5.158 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

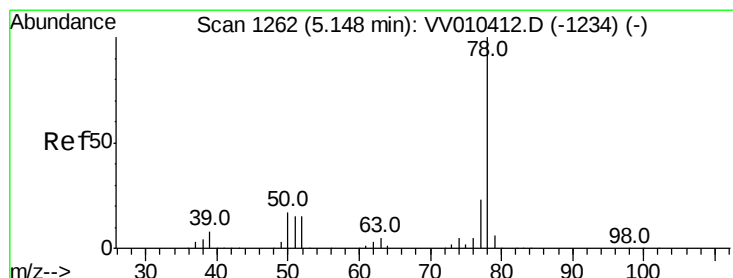
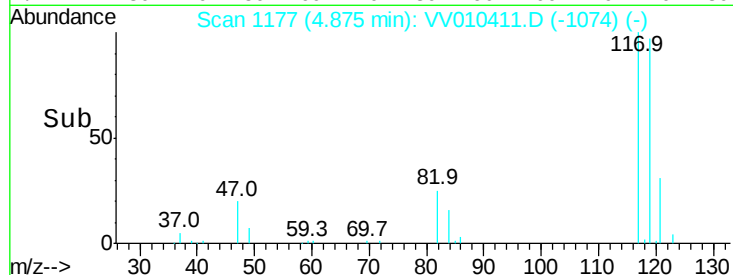
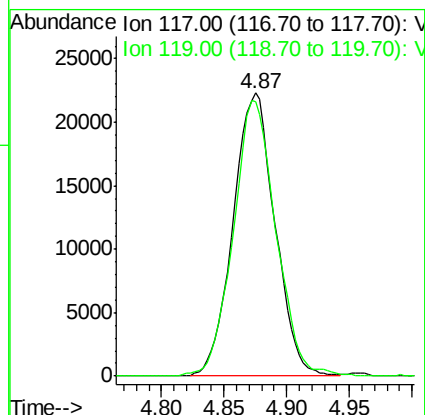
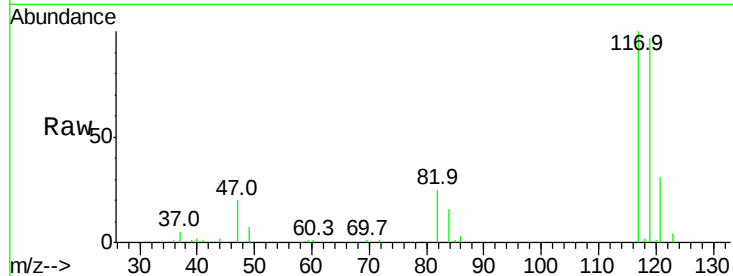
VSTD00578

Tgt Ion:117 Resp: 51929

Ion Ratio Lower Upper

117 100

119 98.0 76.9 115.3



#34

Benzene

Concen: 5.103 ug/L

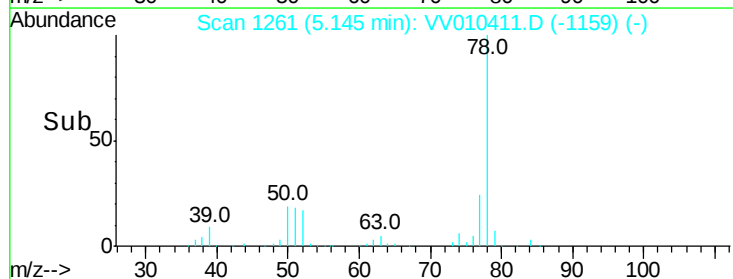
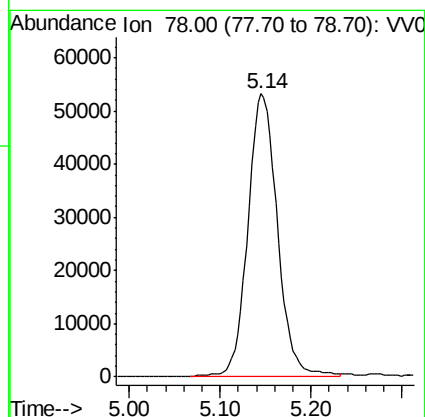
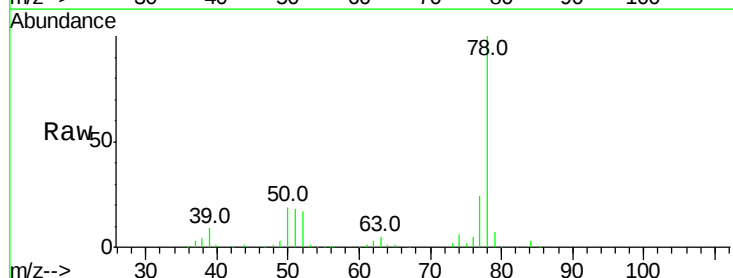
RT: 5.14 min Scan# 1261

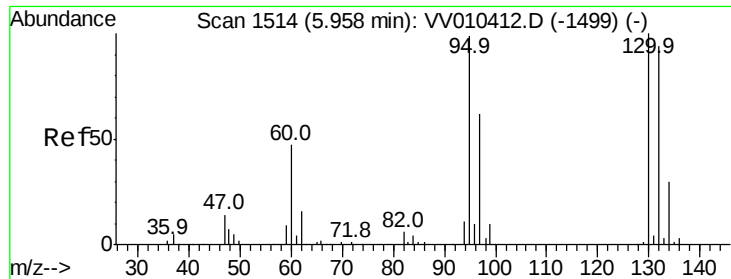
Delta R.T. -0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Tgt Ion: 78 Resp: 120527

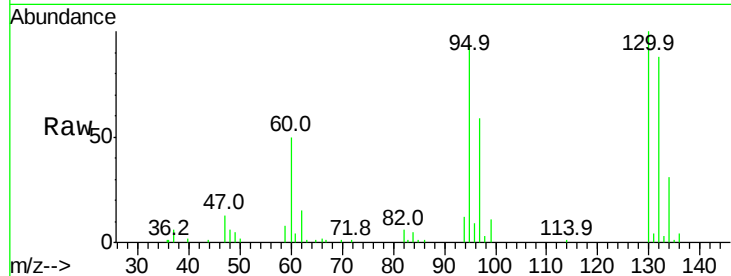




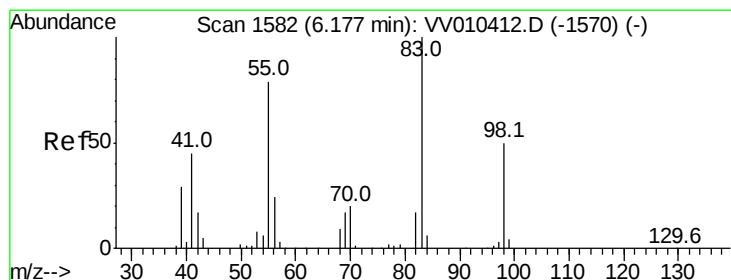
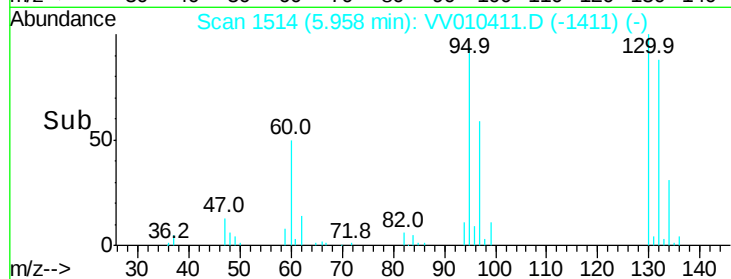
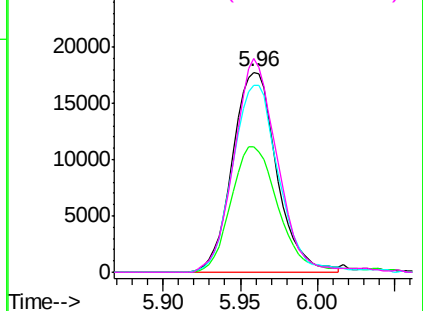
#35
 Trichloroethene
 Concen: 5.077 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

Tgt Ion:	95	Resp:	35476
Ion	Ratio	Lower	Upper
95	100		
97	66.0	44.4	82.4
132	96.3	69.0	128.1
130	102.6	71.5	132.7

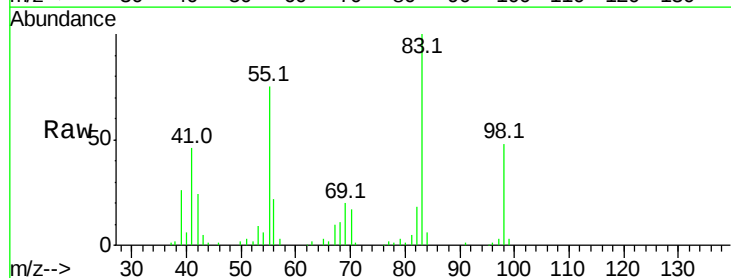


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

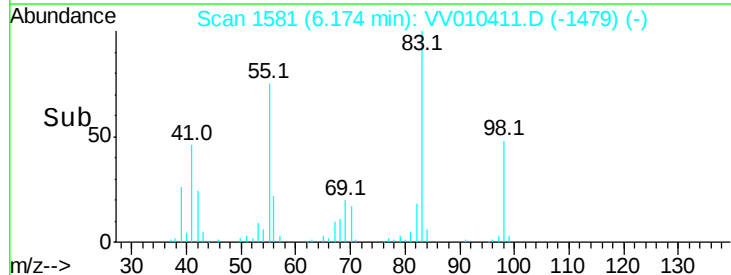
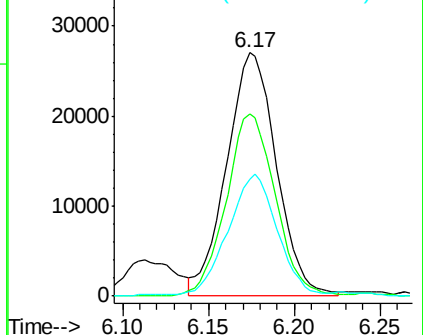


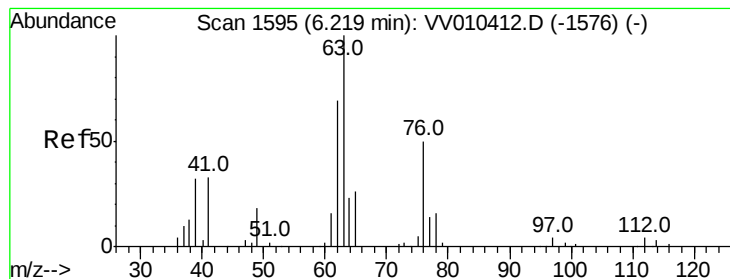
#36
 Methylcyclohexane
 Concen: 5.334 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Tgt Ion:	83	Resp:	54269
Ion	Ratio	Lower	Upper
83	100		
55	74.5	59.6	89.4
98	48.9	38.0	57.0



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





#40

1,2-Dichloropropane

Concen: 4.504 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

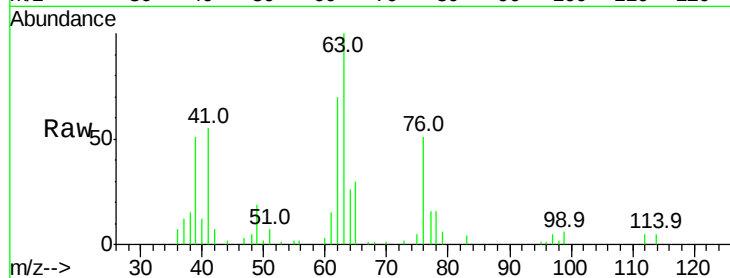
VSTD00578

Tgt Ion: 63 Resp: 27281

Ion Ratio Lower Upper

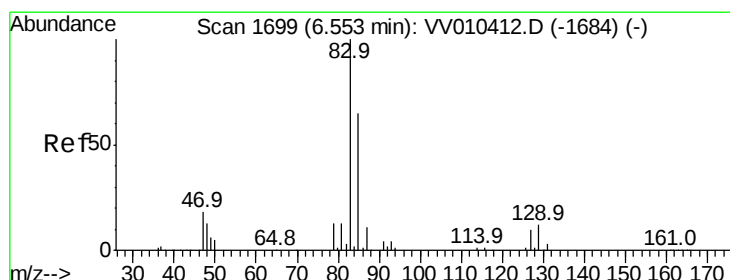
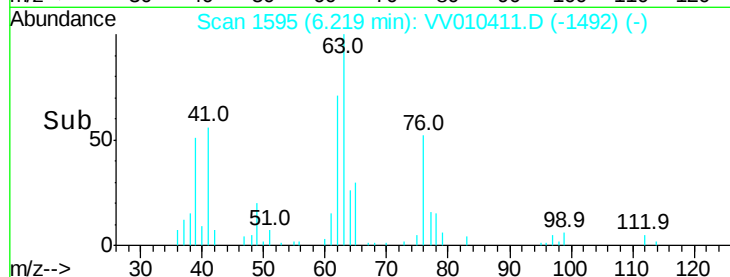
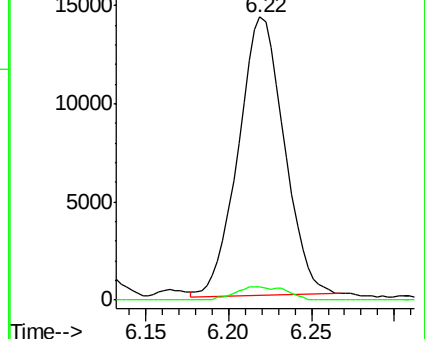
63 100

112 3.5 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 5.037 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

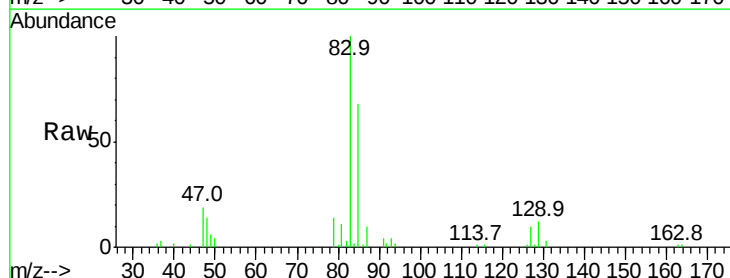
Tgt Ion: 83 Resp: 42818

Ion Ratio Lower Upper

83 100

85 67.5 45.1 83.9

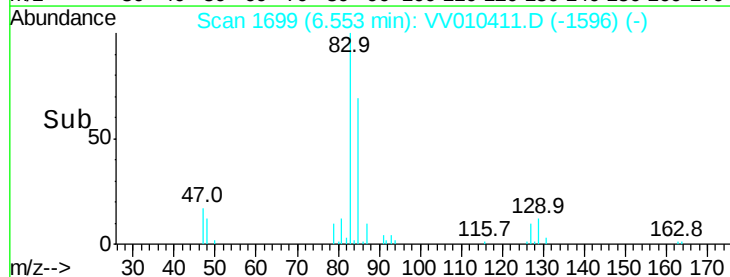
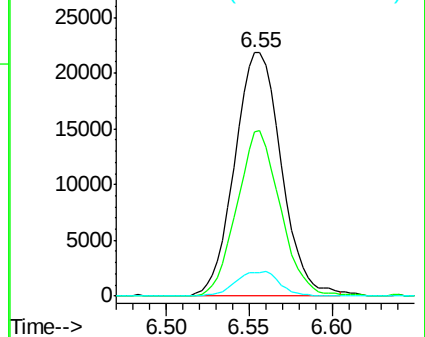
127 9.9 8.2 12.4

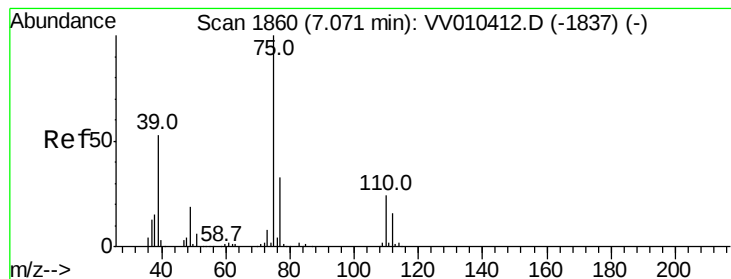


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V



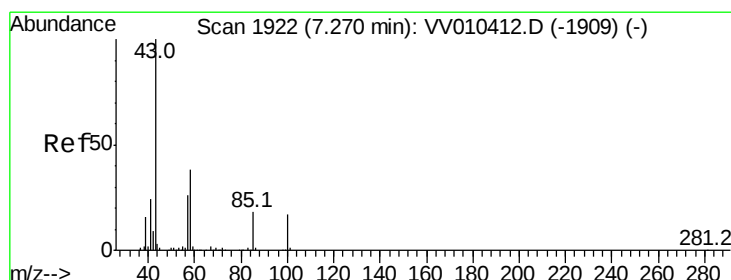
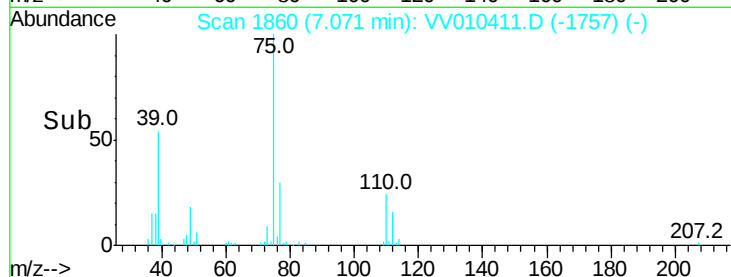
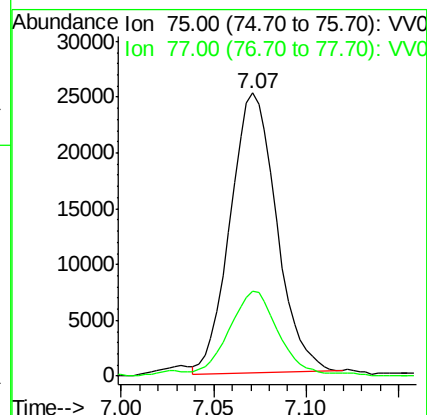
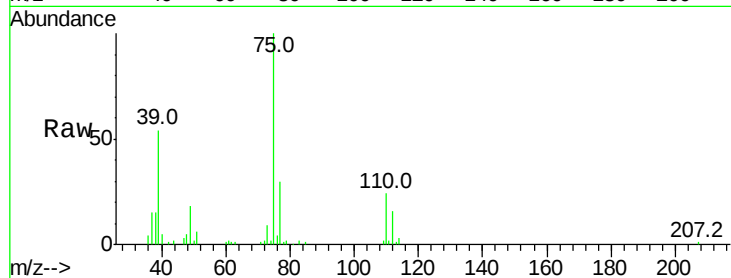


#42

cis-1,3-Dichloropropene
 Concen: 4.746 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00578

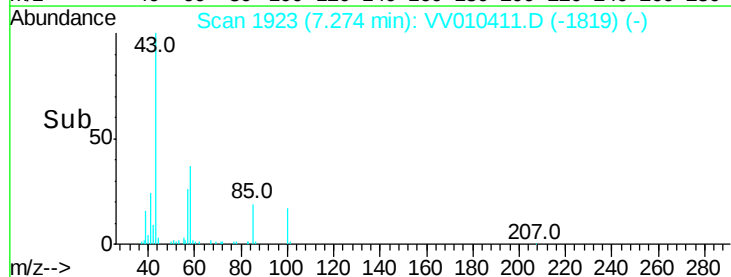
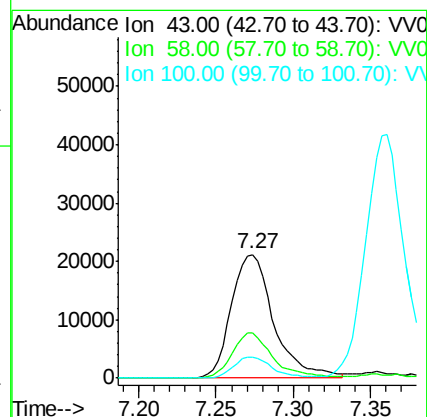
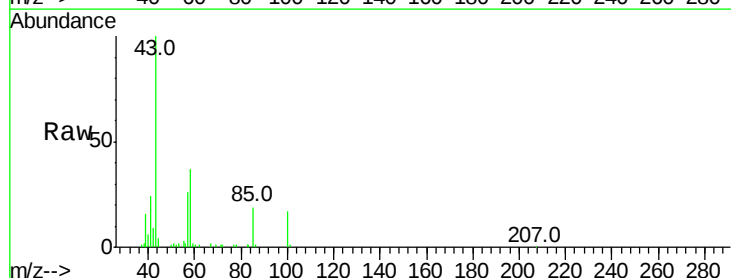
Tgt Ion: 75 Resp: 43360
 Ion Ratio Lower Upper
 75 100
 77 29.9 22.9 42.5

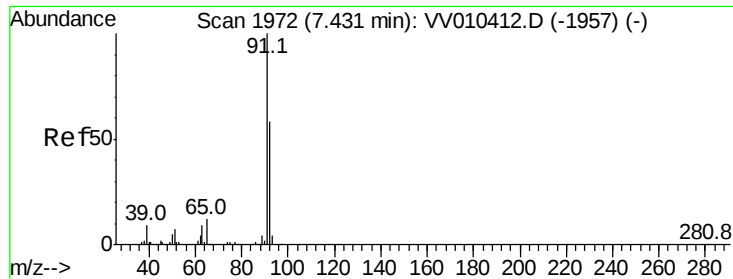


#43

4-Methyl-2-pentanone
 Concen: 8.555 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Tgt Ion: 43 Resp: 40487
 Ion Ratio Lower Upper
 43 100
 58 34.8 30.2 45.2
 100 15.6 12.9 19.3





#44

Toluene

Concen: 4.970 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

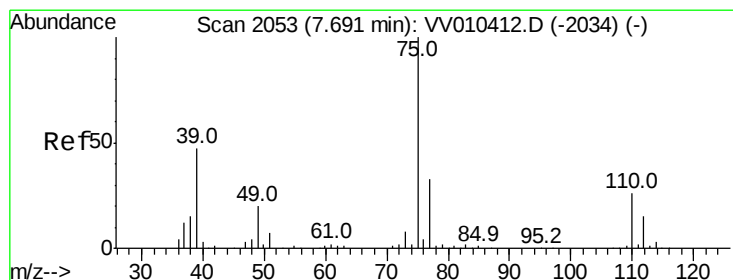
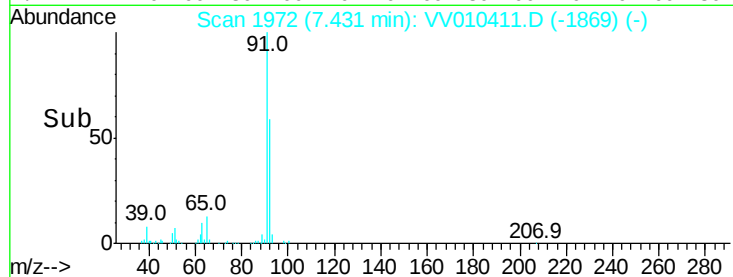
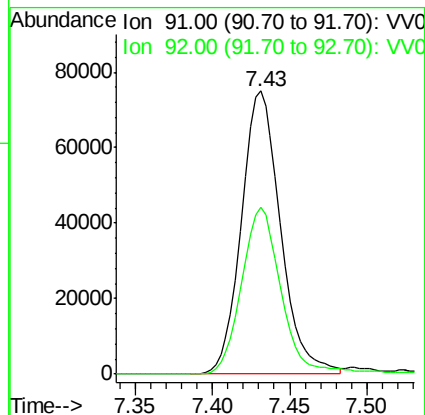
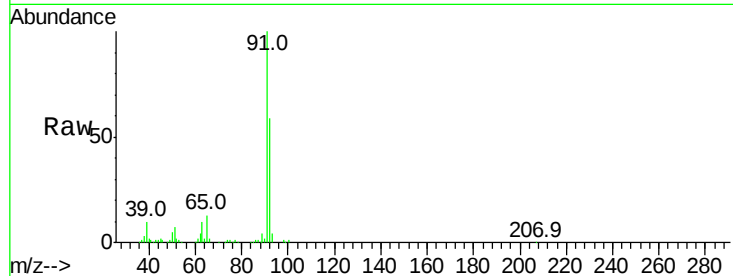
VSTD00578

Tgt Ion: 91 Resp: 132339

Ion Ratio Lower Upper

91 100

92 59.1 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 4.475 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV010411.D

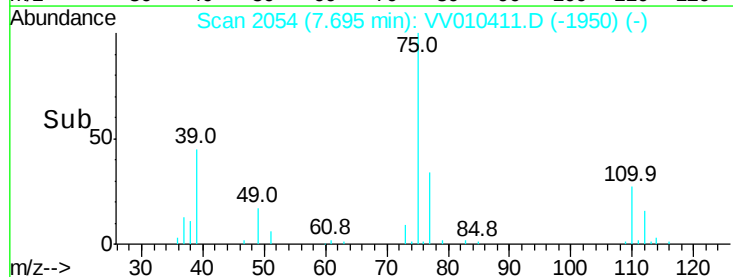
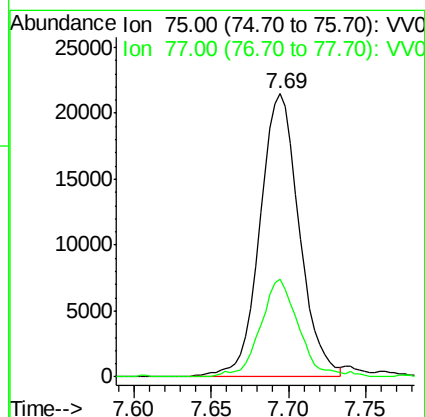
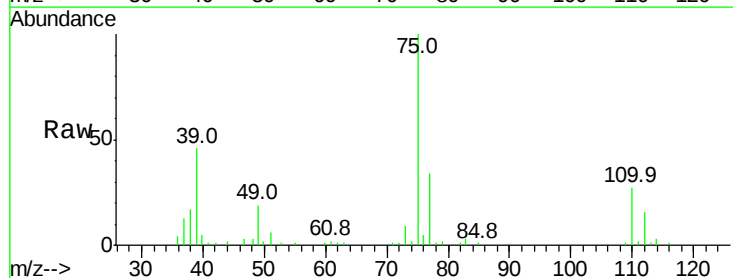
Acq: 22 Apr 2019 13:07

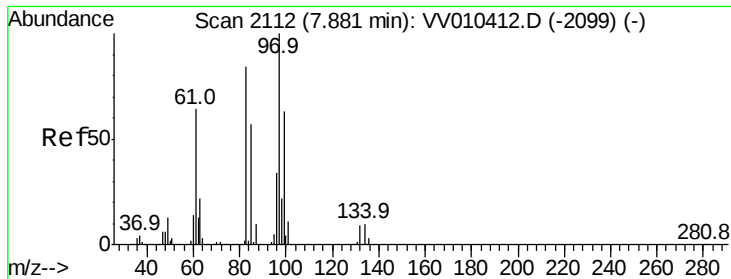
Tgt Ion: 75 Resp: 38116

Ion Ratio Lower Upper

75 100

77 34.4 23.1 42.9





#46

1,1,2-Trichloroethane

Concen: 4.389 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

Tgt Ion: 97 Resp: 23951

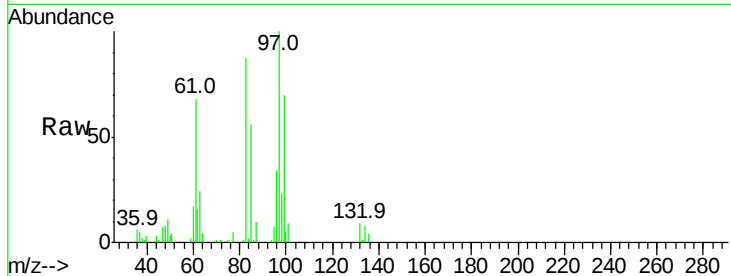
Ion Ratio Lower Upper

97 100

83 87.0 58.9 109.3

85 56.3 40.2 74.6

99 70.3 44.1 81.9



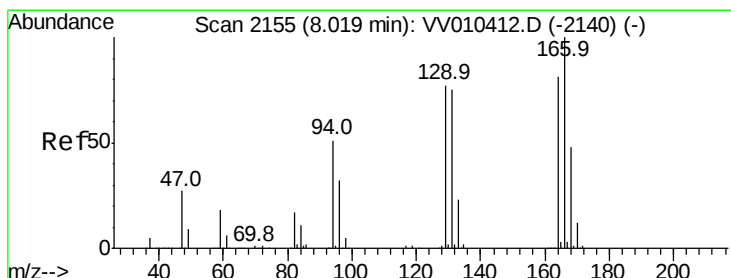
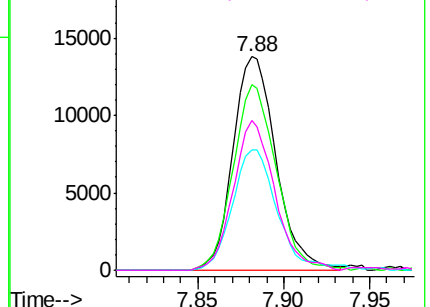
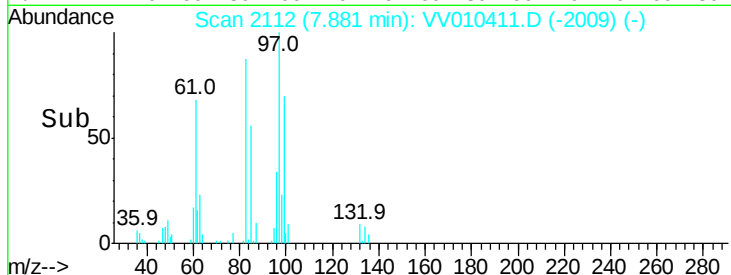
Abundance

Ion 97.00 (96.70 to 97.70): VV010411.D (-2052) (-)

Ion 83.00 (82.70 to 83.70): VV010411.D (-2052) (-)

Ion 85.00 (84.70 to 85.70): VV010411.D (-2052) (-)

Ion 99.00 (98.70 to 99.70): VV010411.D (-2052) (-)



#47

Tetrachloroethene

Concen: 4.909 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Tgt Ion: 164 Resp: 30609

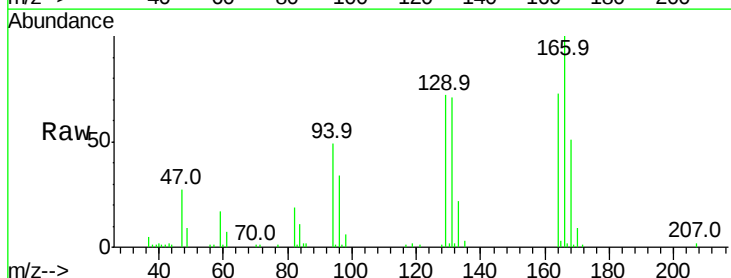
Ion Ratio Lower Upper

164 100

129 98.5 67.1 124.5

131 97.4 64.6 120.0

166 136.3 86.7 160.9



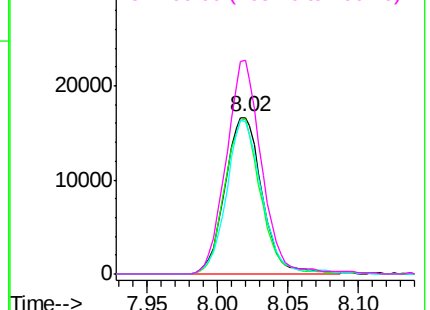
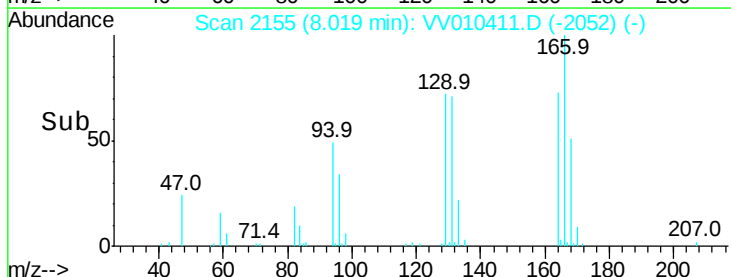
Abundance

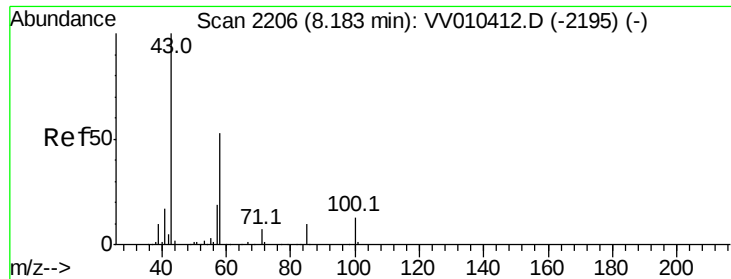
Ion 164.00 (163.70 to 164.70): VV010411.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV010411.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV010411.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV010411.D (-2052) (-)

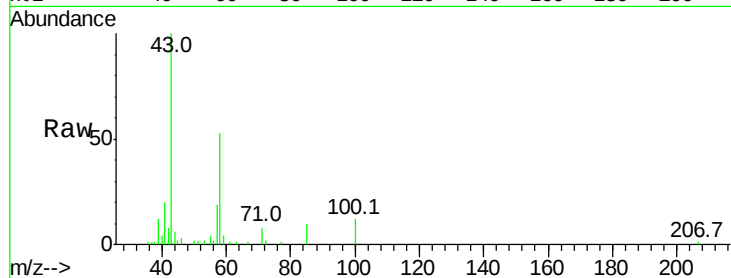




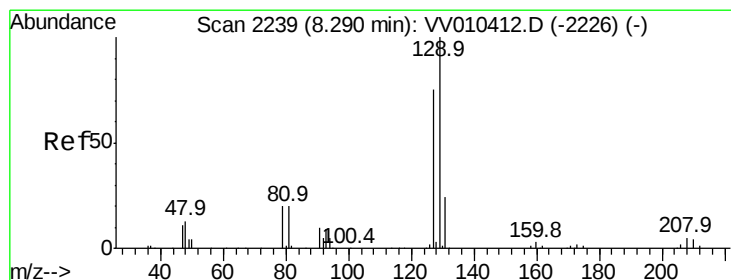
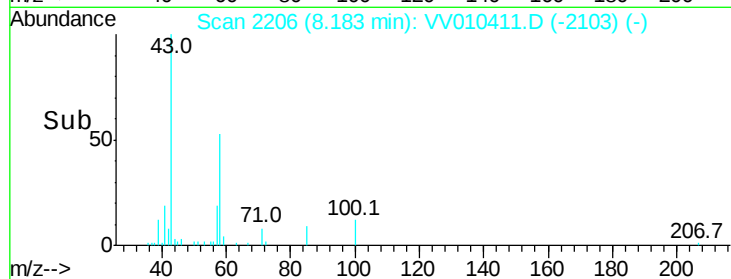
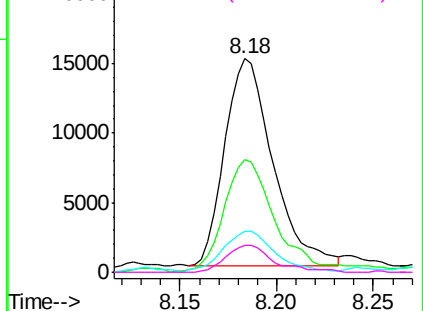
#49
2-Hexanone
Concen: 7.776 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

Tgt Ion: 43 Resp: 25760
Ion Ratio Lower Upper
43 100
58 53.7 37.6 56.4
57 21.3 15.8 23.8
100 11.6 9.2 13.8

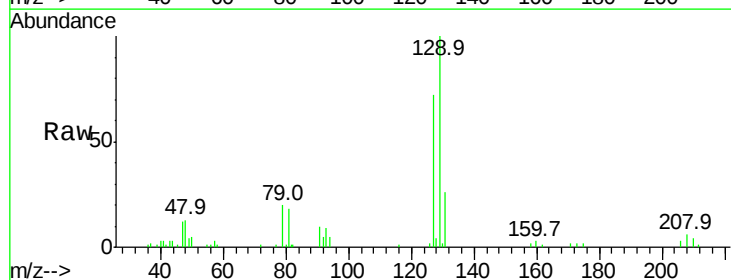


Abundance Ion 43.00 (42.70 to 43.70): VV010411.D (-2103) (-)
Ion 58.00 (57.70 to 58.70): VV010411.D (-2103) (-)
Ion 57.00 (56.70 to 57.70): VV010411.D (-2103) (-)
Ion 100.00 (99.70 to 100.70): VV010411.D (-2103) (-)

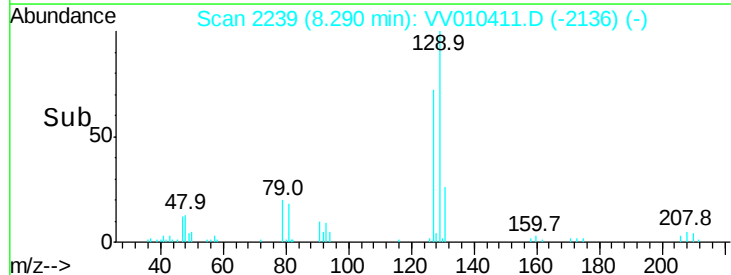
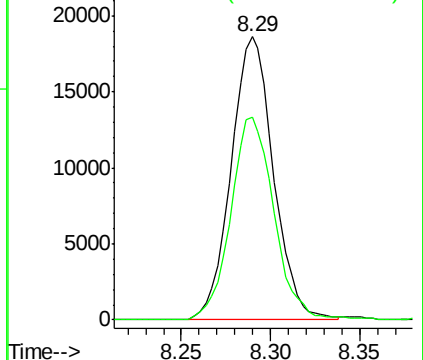


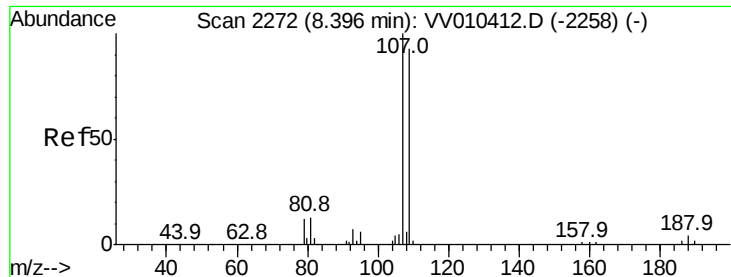
#50
Dibromochloromethane
Concen: 4.595 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

Tgt Ion: 129 Resp: 30790
Ion Ratio Lower Upper
129 100
127 71.8 52.4 97.4



Abundance Ion 129.00 (128.70 to 129.70): VV010411.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV010411.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 4.772 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

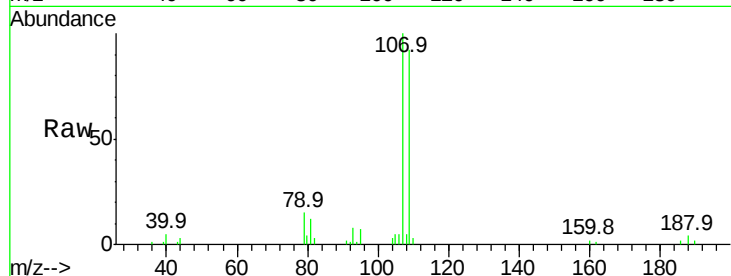
Tgt Ion:107 Resp: 25827

Ion Ratio Lower Upper

107 100

109 92.1 64.9 120.5

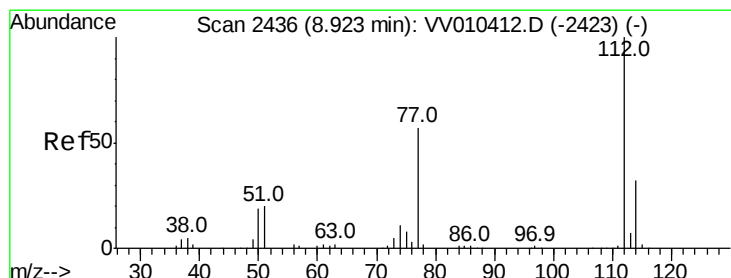
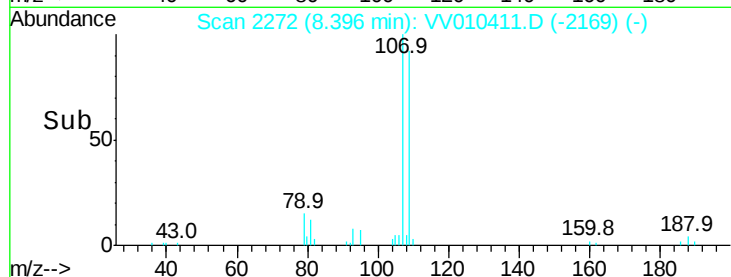
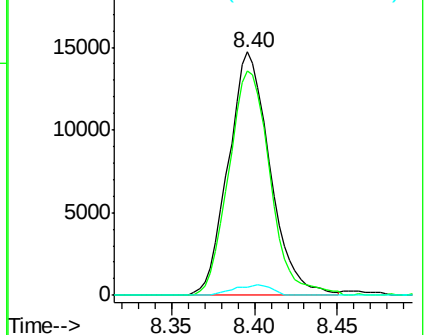
188 3.6 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 5.004 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

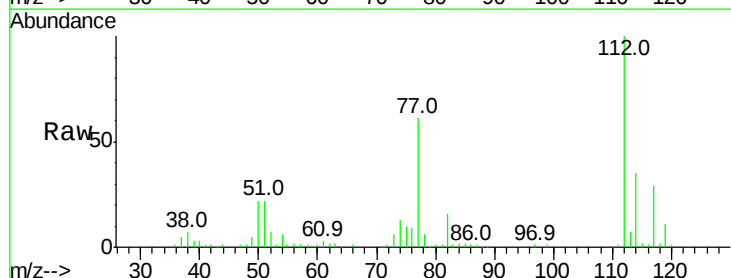
Tgt Ion:112 Resp: 92702

Ion Ratio Lower Upper

112 100

77 61.5 46.2 69.2

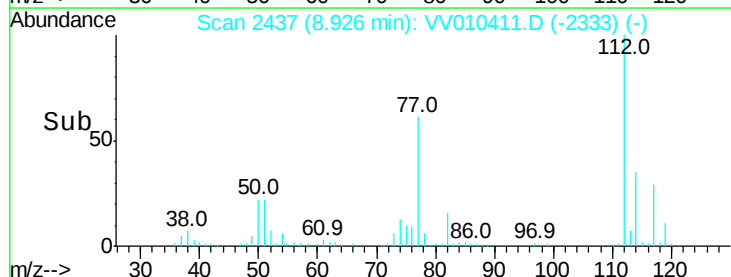
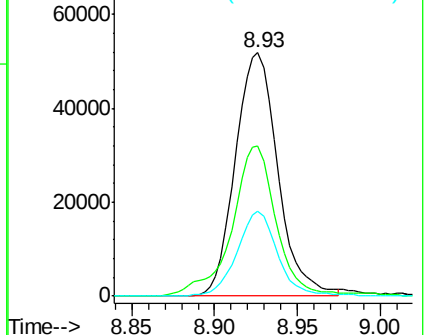
114 34.8 22.5 41.7

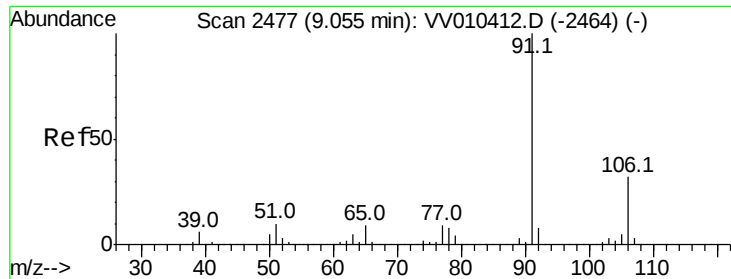


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

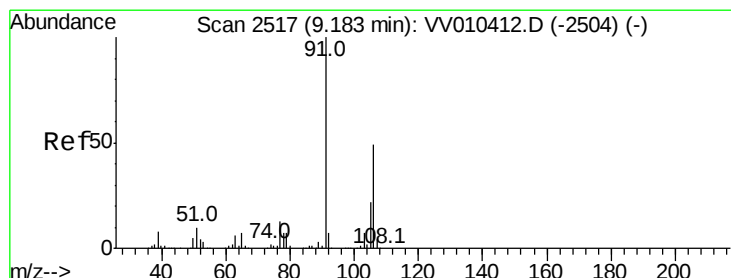
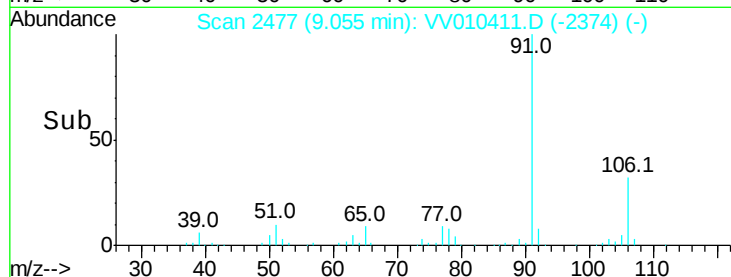
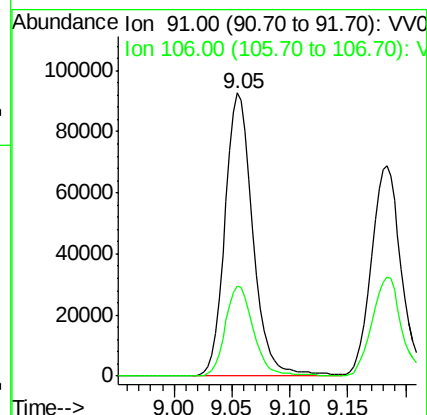
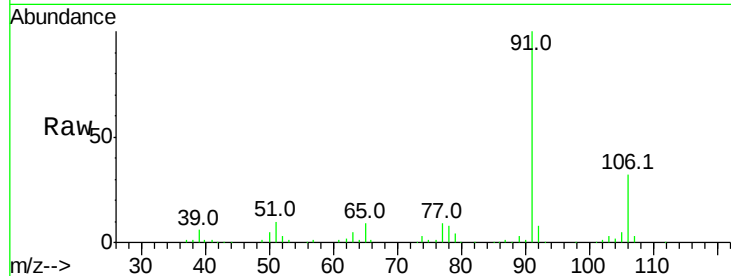




#53
Ethylbenzene
Concen: 5.114 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

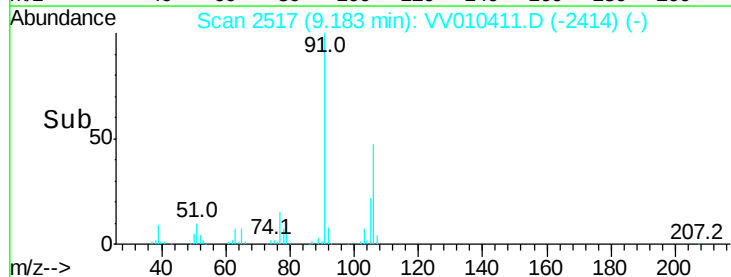
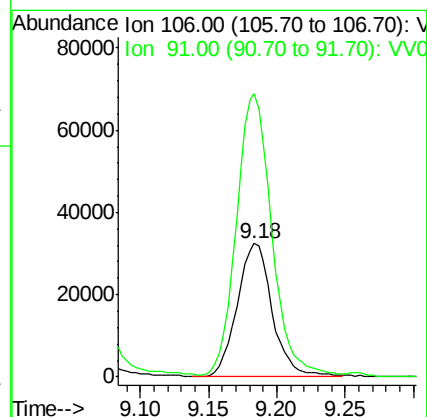
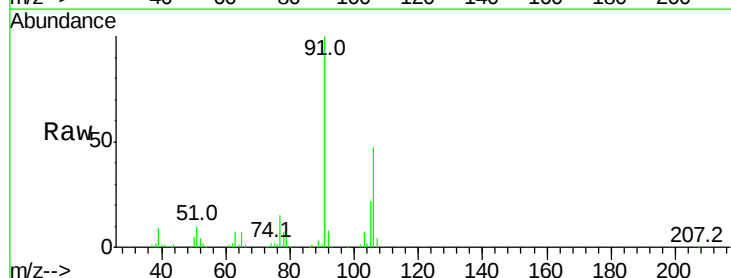
Instrument :
MSVOA_V
ClientSampleId :
VSTD00578

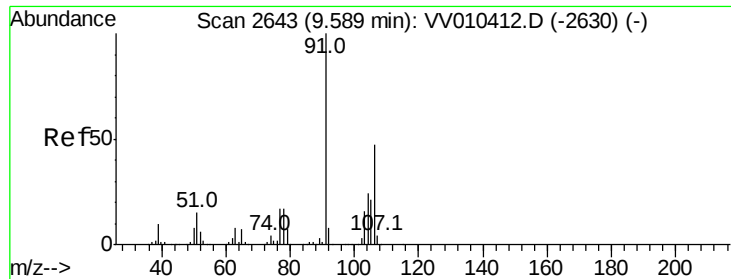
Tgt Ion: 91 Resp: 154707
Ion Ratio Lower Upper
91 100
106 31.7 22.5 41.9



#54
m,p-Xylene
Concen: 4.904 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV010411.D
Acq: 22 Apr 2019 13:07

Tgt Ion: 106 Resp: 57427
Ion Ratio Lower Upper
106 100
91 212.0 142.5 264.7





#55

o-xylene

Concen: 5.244 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

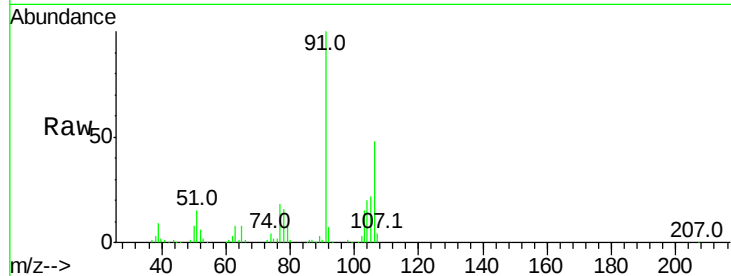
VSTD00578

Tgt Ion:106 Resp: 59219

Ion Ratio Lower Upper

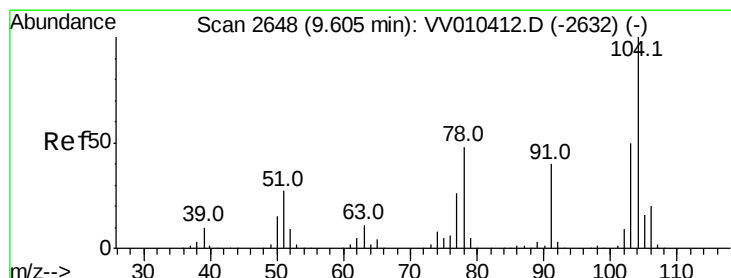
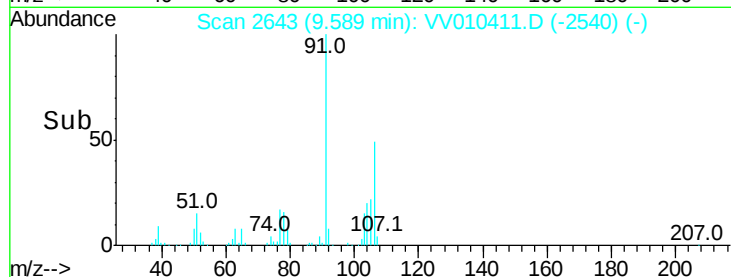
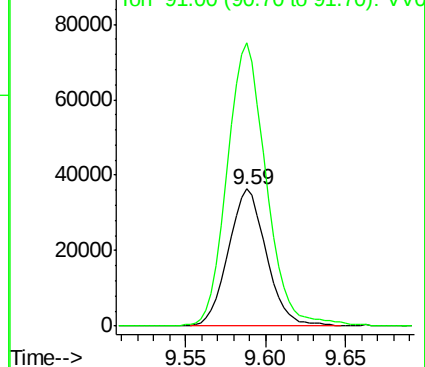
106 100

91 206.3 148.5 275.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.793 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010411.D

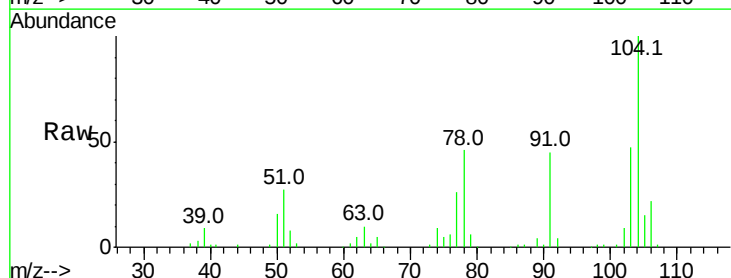
Acq: 22 Apr 2019 13:07

Tgt Ion:104 Resp: 92431

Ion Ratio Lower Upper

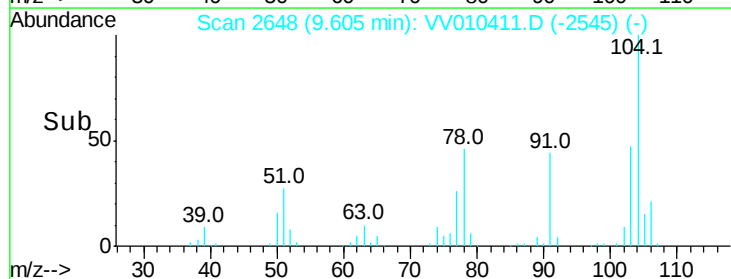
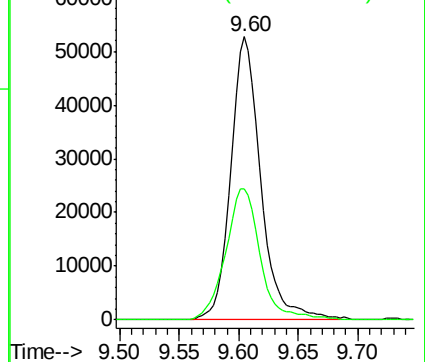
104 100

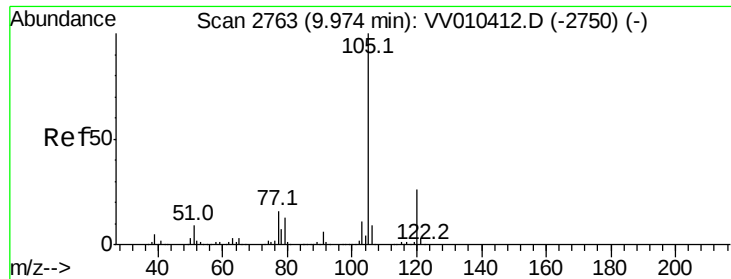
78 46.3 33.3 61.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 5.137 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

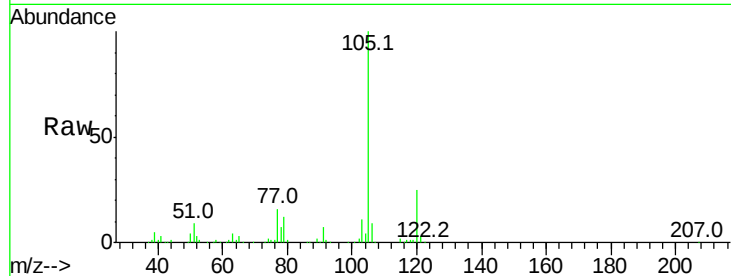
Tgt Ion:105 Resp: 154582

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

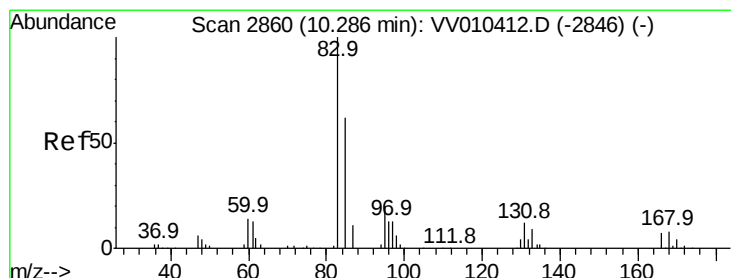
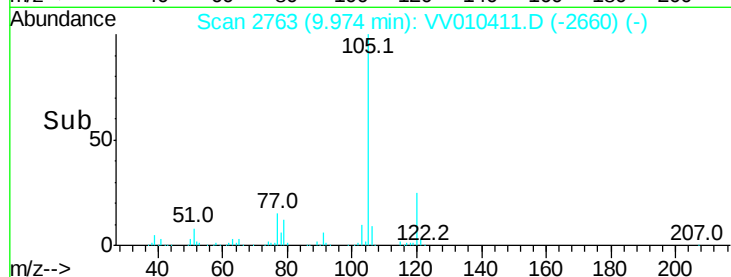
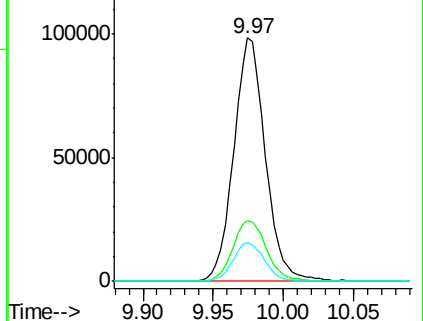
77 16.0 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.147 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

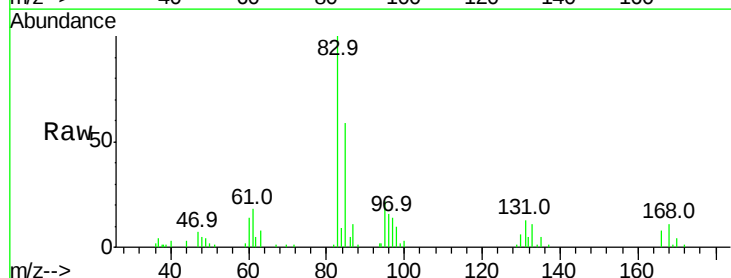
Tgt Ion: 83 Resp: 29262

Ion Ratio Lower Upper

83 100

85 59.3 43.6 81.0

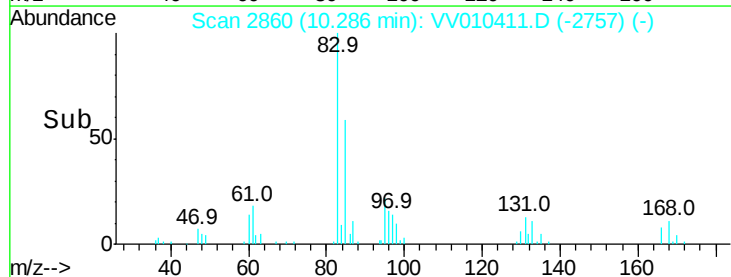
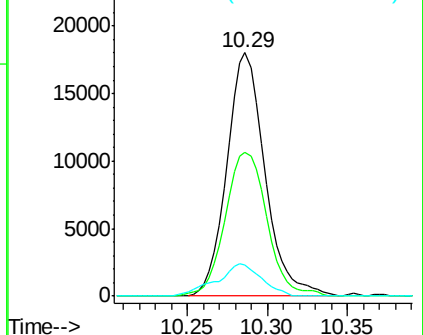
131 12.7 9.8 14.6

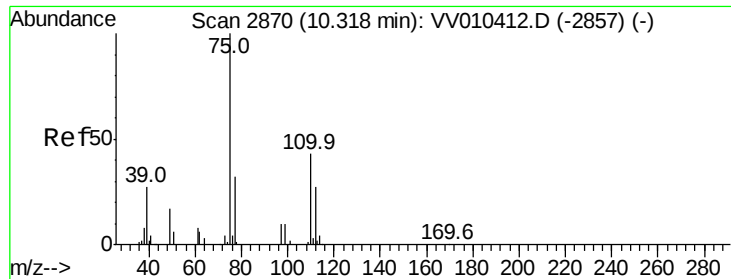


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.425 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

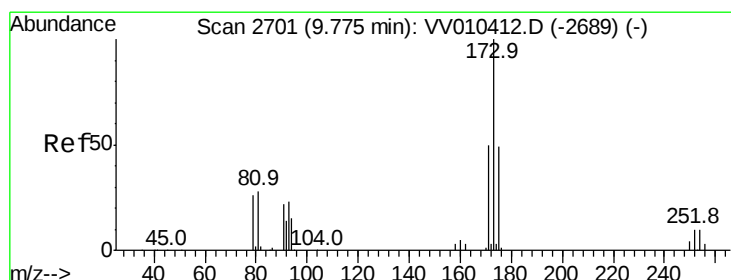
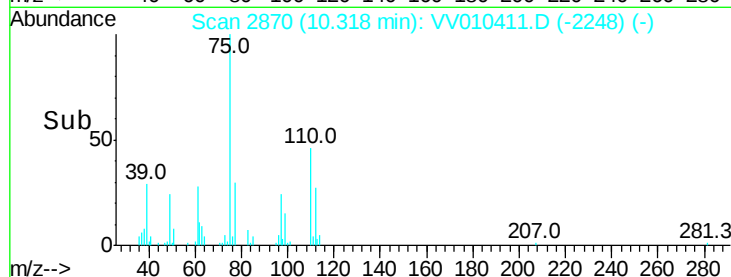
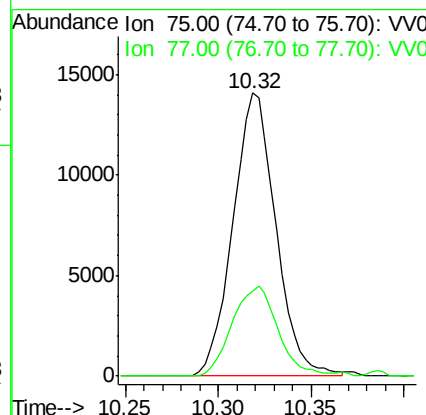
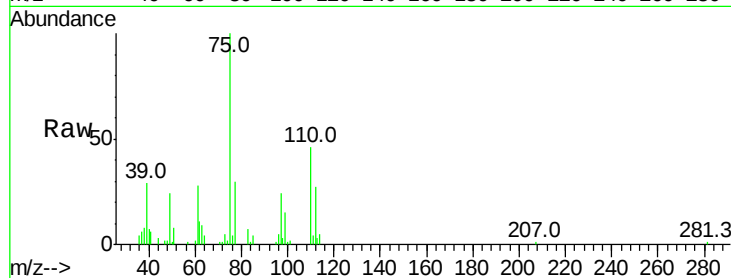
VSTD00578

Tgt Ion: 75 Resp: 22611

Ion Ratio Lower Upper

75 100

77 33.7 26.2 39.2



#62

Bromoform

Concen: 4.565 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

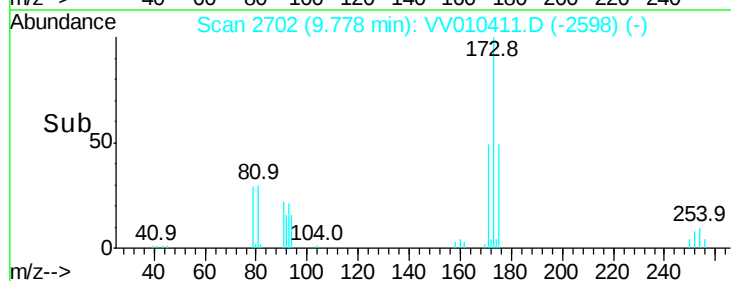
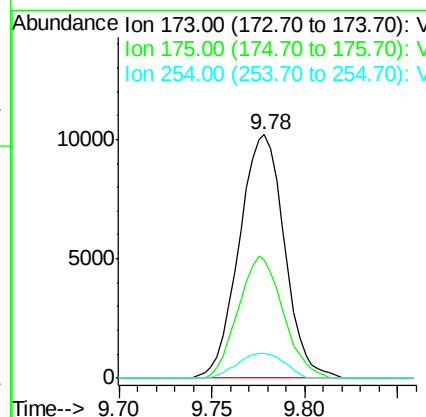
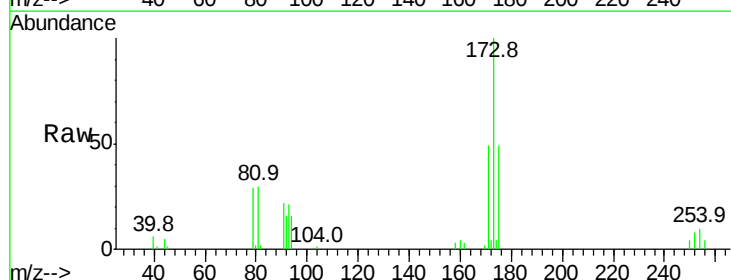
Tgt Ion: 173 Resp: 17350

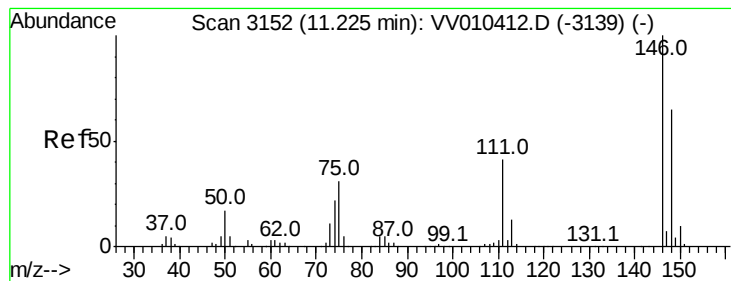
Ion Ratio Lower Upper

173 100

175 49.4 39.3 58.9

254 10.6 8.2 12.4





#63

1,3-Dichlorobenzene

Concen: 4.982 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

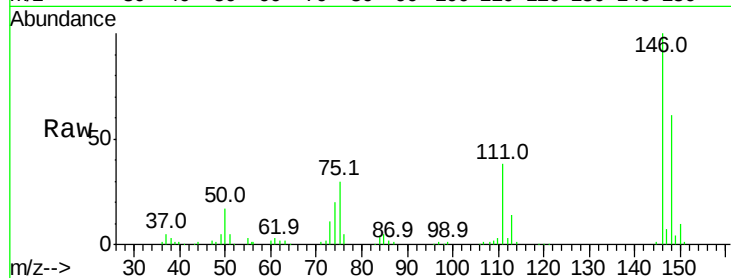
Tgt Ion:146 Resp: 74698

Ion Ratio Lower Upper

146 100

111 38.2 28.8 53.4

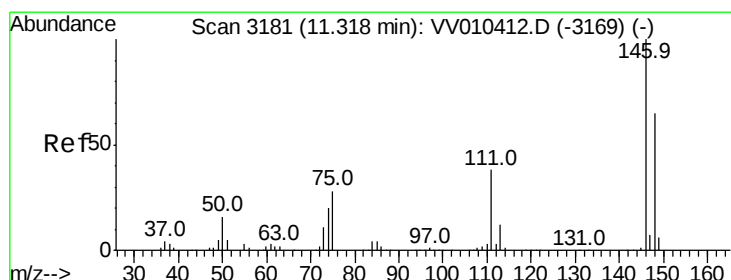
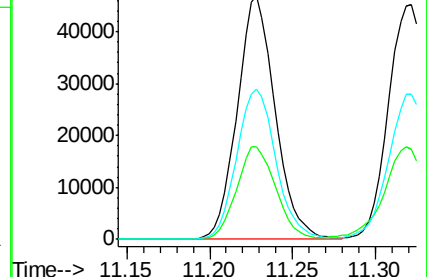
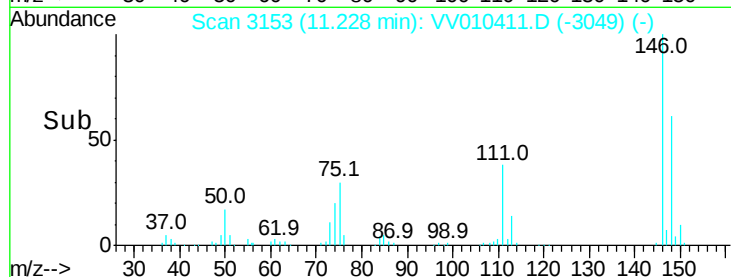
148 61.4 45.6 84.6



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



#64

1,4-Dichlorobenzene

Concen: 4.979 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

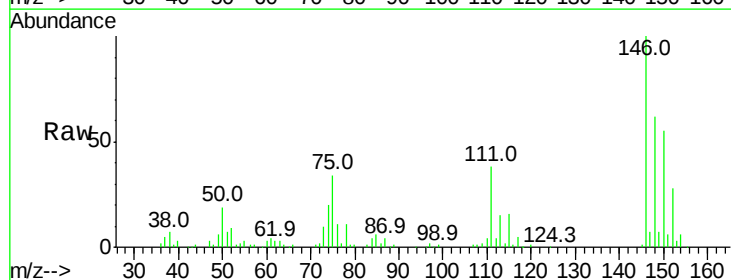
Tgt Ion:146 Resp: 76969

Ion Ratio Lower Upper

146 100

111 38.3 26.9 49.9

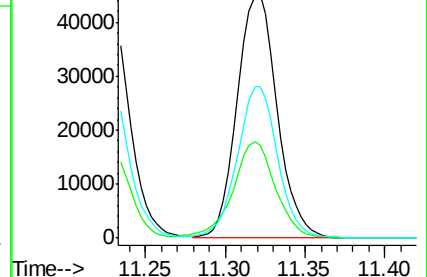
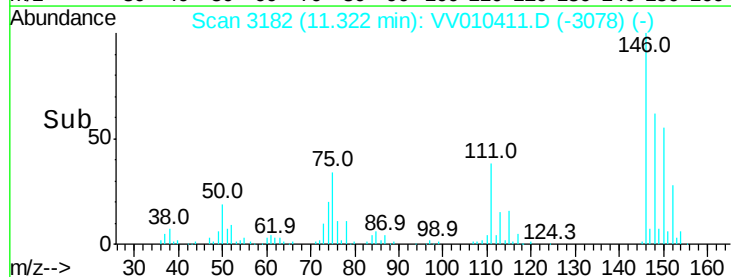
148 62.0 45.6 84.6

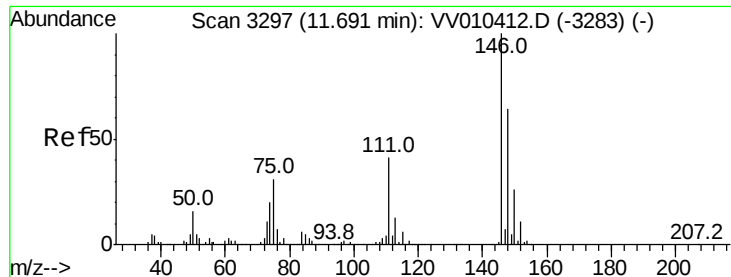


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.840 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampled :

VSTD00578

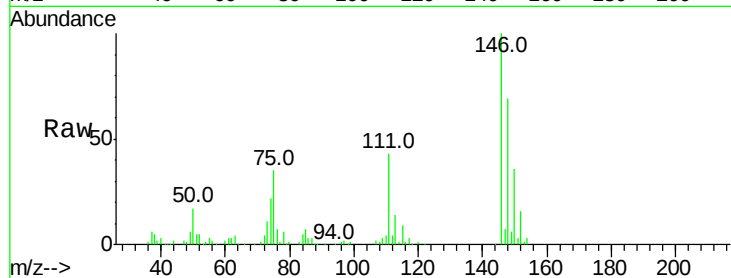
Tgt Ion:146 Resp: 70063

Ion Ratio Lower Upper

146 100

111 43.2 32.9 49.3

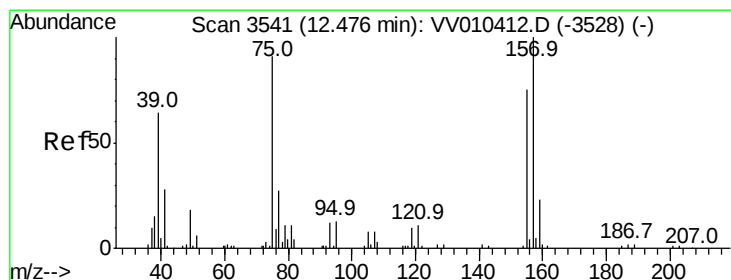
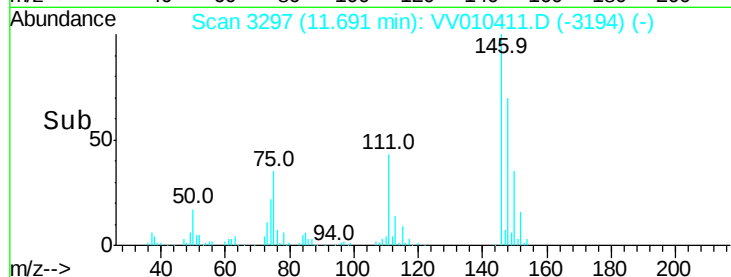
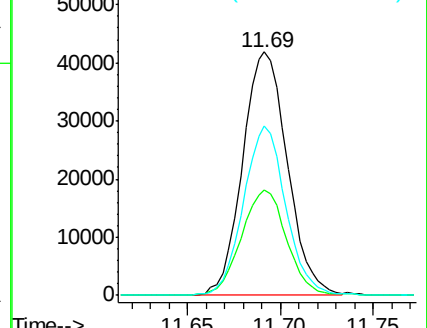
148 69.4 51.4 77.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 3.929 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

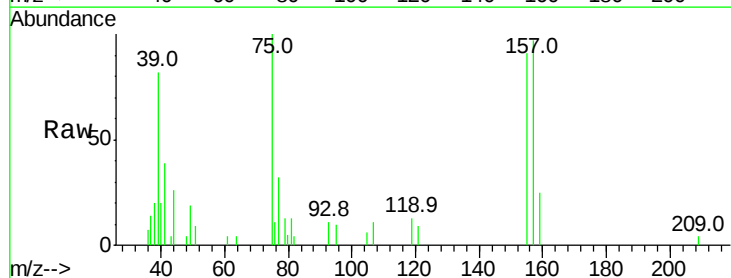
Tgt Ion: 75 Resp: 4545

Ion Ratio Lower Upper

75 100

157 96.8 88.2 132.2

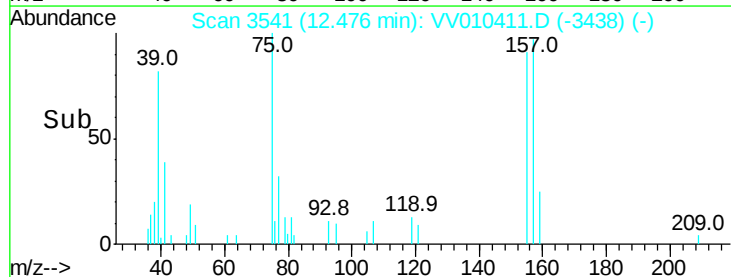
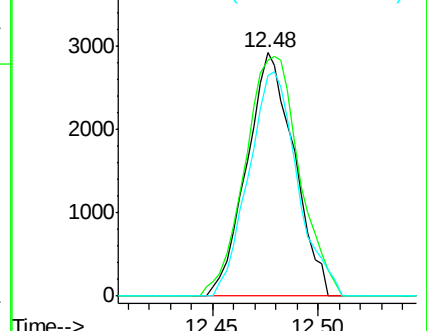
155 90.7 66.4 99.6

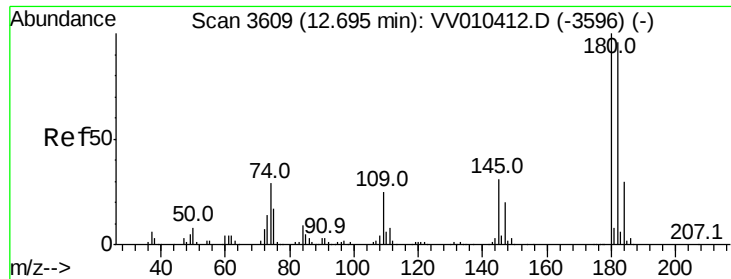


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

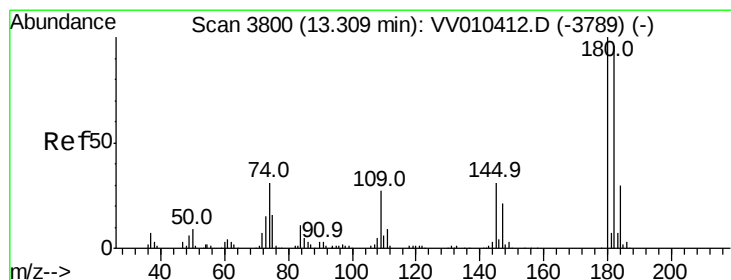
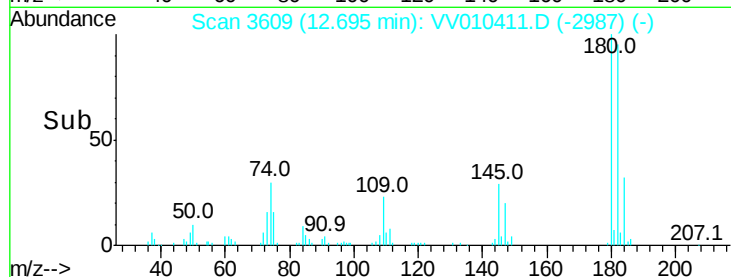
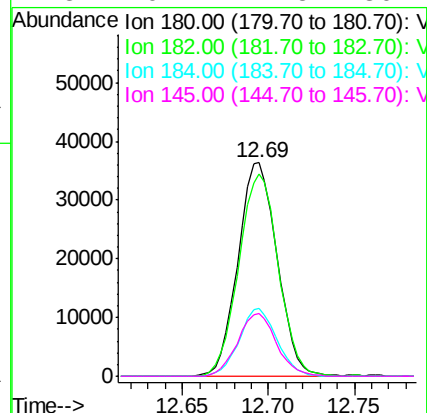
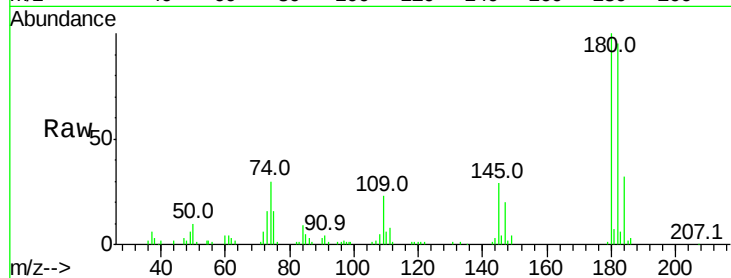




#67
 1,3,5-Trichlorobenzene
 Concen: 4.606 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

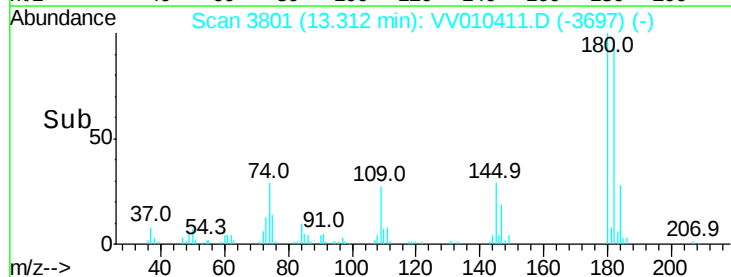
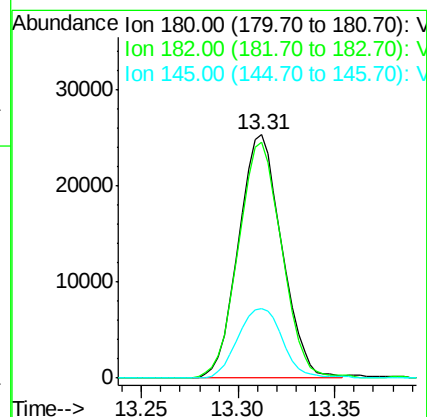
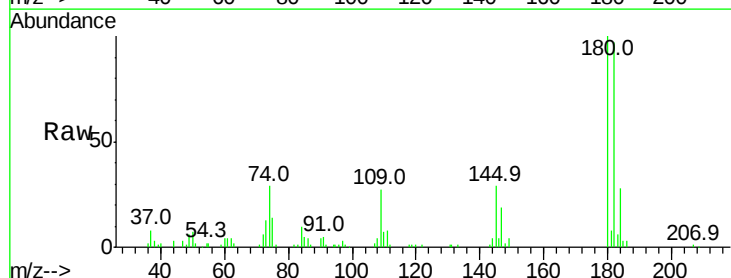
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00578

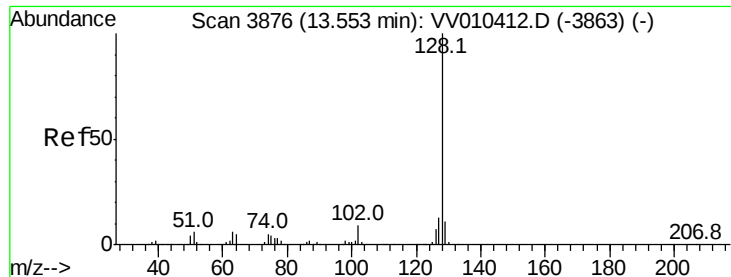
Tgt Ion:180 Resp: 57440
 Ion Ratio Lower Upper
 180 100
 182 95.6 76.2 114.2
 184 30.6 24.1 36.1
 145 29.1 24.5 36.7



#68
 1,2,4-trichlorobenzene
 Concen: 3.964 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010411.D
 Acq: 22 Apr 2019 13:07

Tgt Ion:180 Resp: 39505
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.3 114.5
 145 29.6 25.1 37.7





#69

Naphthalene

Concen: 3.057 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD00578

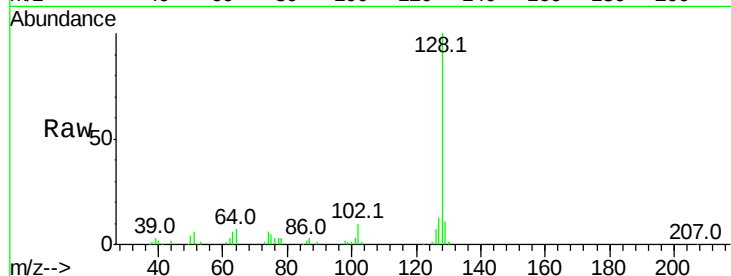
Tgt Ion:128 Resp: 56263

Ion Ratio Lower Upper

128 100

129 10.7 8.4 12.6

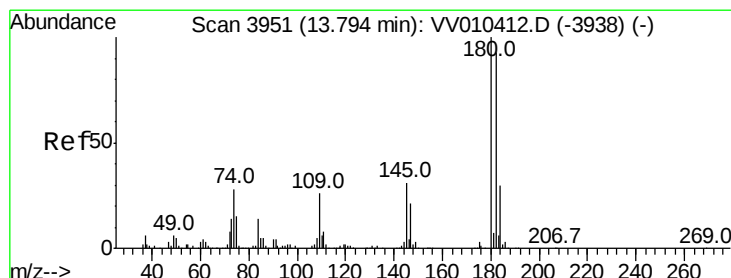
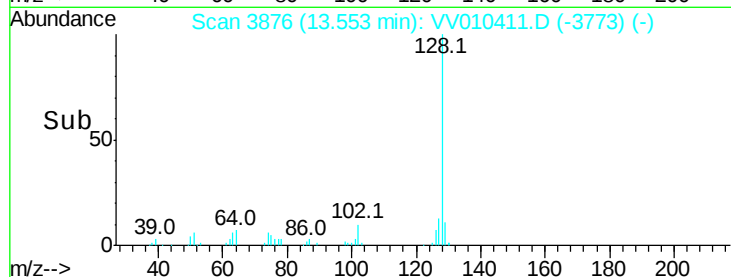
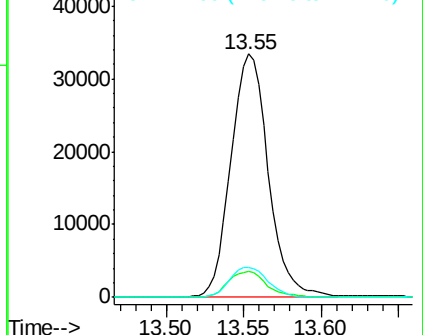
127 12.5 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.813 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010411.D

Acq: 22 Apr 2019 13:07

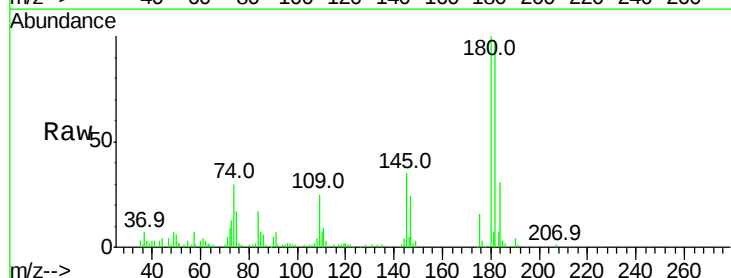
Tgt Ion:180 Resp: 36920

Ion Ratio Lower Upper

180 100

182 92.4 76.6 114.8

145 33.5 25.8 38.8



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

