

Data File : VV011055.D
Acq On : 24 May 2019 06:26
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Quant Time: May 24 09:08:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Fri May 24 09:03:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	117906	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	117701	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	53767	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27861	20.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.92%
7) Chloroethane-d5	1.55	69	20163	22.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.60%
10) 1,1-Dichloroethene-d2	2.11	63	54887	21.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.96%
20) 2-Butanone-d5	3.93	46	29907	64.48	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	128.96%
24) Chloroform-d	4.39	84	80553	26.37	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.48%
26) 1,2-Dichloroethane-d4	5.07	65	45538	25.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.20%
29) Benzene-d6	5.09	84	160927	25.04	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.16%
33) 1,2-Dichloropropane-d6	6.11	67	52948	25.93	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.72%
37) Toluene-d8	7.36	98	145484	24.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.40%
38) trans-1,3-Dichloropropene-	7.66	79	19679	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.88%
39) 2-Hexanone-d5	8.13	63	17041	44.75	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.50%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	55095	27.03	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	108.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	53639	24.57	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.28%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	34919	20.060 ug/L	96
3) Chloromethane	1.24	50	35858	22.742 ug/L	100
5) Vinyl chloride	1.32	62	36104	22.799 ug/L	99
6) Bromomethane	1.50	94	9853	17.844 ug/L	99
8) Chloroethane	1.57	64	19421	24.509 ug/L	96
9) Trichlorofluoromethane	1.75	101	52705	20.882 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.12	101	31330	21.768 ug/L	96
12) 1,1-Dichloroethene	2.12	96	29343	23.583 ug/L	96
13) Acetone	2.19	43	21628	48.355 ug/L	94
14) Carbon disulfide	2.30	76	78598	22.558 ug/L	98
15) Methyl Acetate	2.45	43	27125	31.563 ug/L	96
16) Methylene chloride	2.52	84	49940	24.680 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	119620	27.171 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	41820	24.364 ug/L	95
19) 1,1-Dichloroethane	3.22	63	81675	26.133 ug/L	97
21) 2-Butanone	4.02	43	32470	53.048 ug/L	95
22) cis-1,2-Dichloroethene	3.95	96	50725	26.542 ug/L	98

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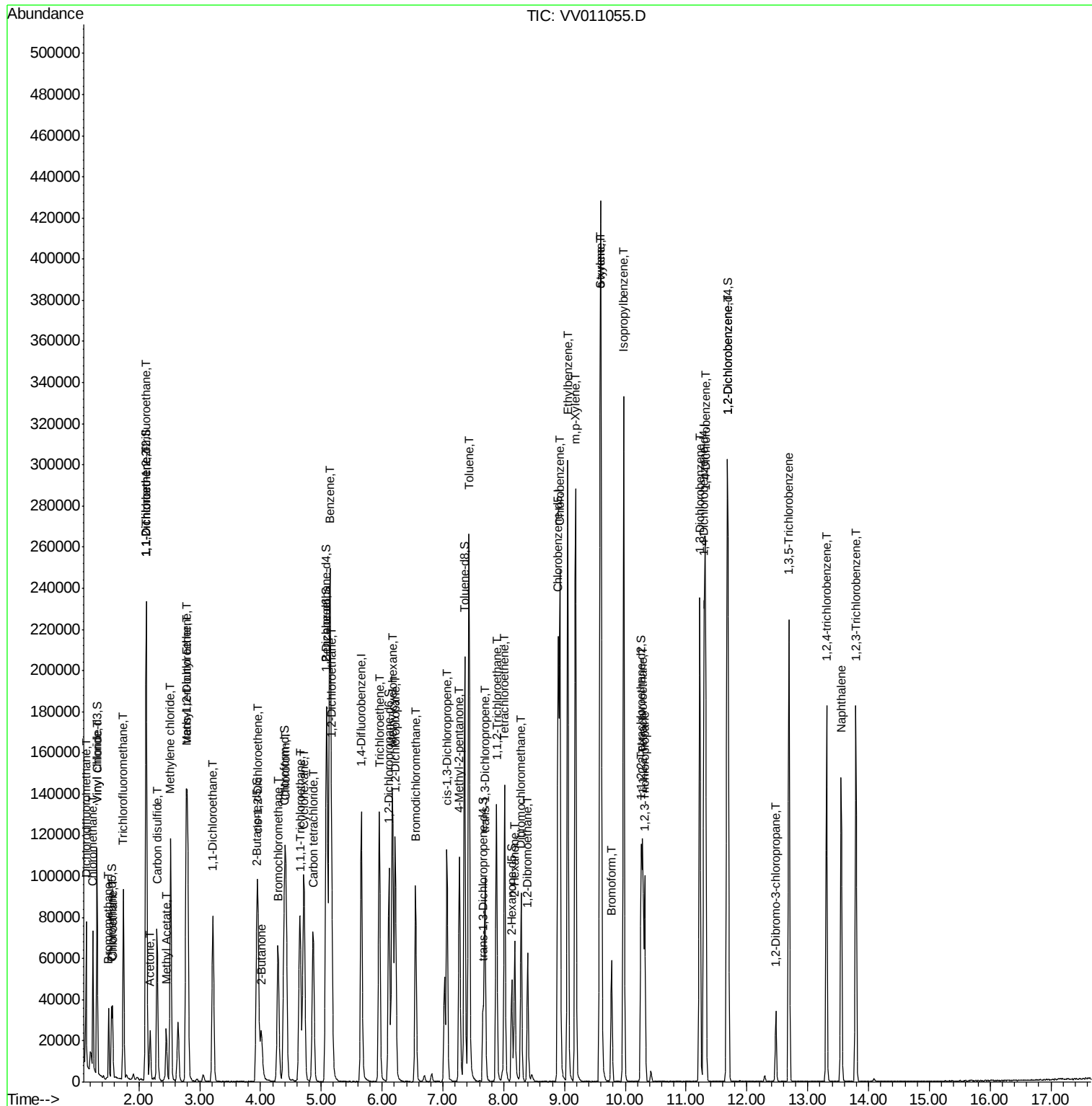
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	23716	26.185	ug/L	90
25) Chloroform	4.42	83	89376	25.273	ug/L	99
27) 1,2-Dichloroethane	5.17	62	58401	26.864	ug/L	97
30) Cyclohexane	4.71	56	52929	21.641	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	66346	25.059	ug/L	99
32) Carbon tetrachloride	4.87	117	54593	22.611	ug/L	100
34) Benzene	5.14	78	186402	27.473	ug/L	100
35) Trichloroethene	5.96	95	46411	24.757	ug/L	98
36) Methylcyclohexane	6.17	83	60129	21.696	ug/L	99
40) 1,2-Dichloropropane	6.22	63	49929	28.000	ug/L #	92
41) Bromodichloromethane	6.55	83	63927	26.822	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	67239	25.333	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	70575	55.213	ug/L	100
44) Toluene	7.43	91	201557	26.769	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	54875	24.544	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	42356	27.876	ug/L	98
47) Tetrachloroethene	8.02	164	32163	21.979	ug/L	97
49) 2-Hexanone	8.18	43	40765	43.679	ug/L	98
50) Dibromochloromethane	8.29	129	45347	25.356	ug/L	97
51) 1,2-Dibromoethane	8.39	107	40146	27.321	ug/L	98
52) Chlorobenzene	8.92	112	130461	25.278	ug/L	95
53) Ethylbenzene	9.05	91	211642	25.796	ug/L	99
54) m,p-Xylene	9.18	106	81490	25.484	ug/L	95
55) o-xylene	9.59	106	82848	27.156	ug/L	97
56) Styrene	9.60	104	147253	28.006	ug/L	97
57) Isopropylbenzene	9.97	105	205752	25.565	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	55402	27.691	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	41309	28.107	ug/L	99
62) Bromoform	9.77	173	24873	26.060	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	94029	25.640	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	95288	25.230	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	95377	26.823	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	8432	29.850	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	63032	23.431	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	49645	23.349	ug/L	97
69) Naphthalene	13.55	128	112777	26.459	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	50543	24.349	ug/L	98

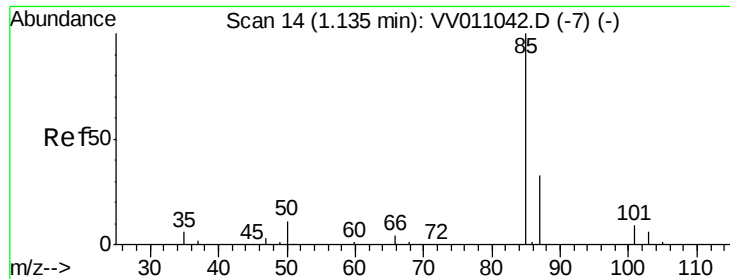
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.060 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

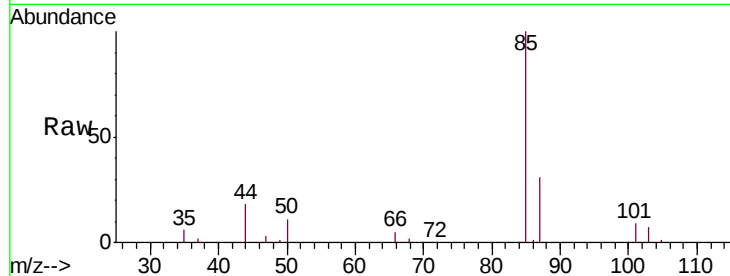
VSTD02573

Tgt Ion: 85 Resp: 34919

Ion Ratio Lower Upper

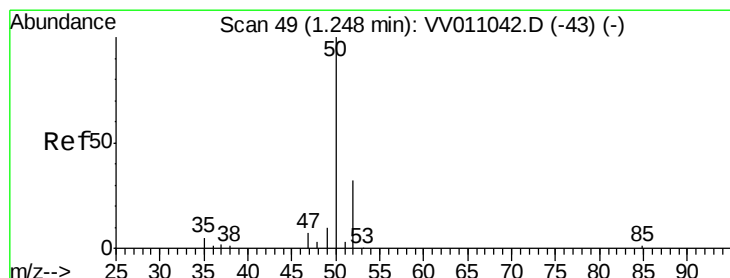
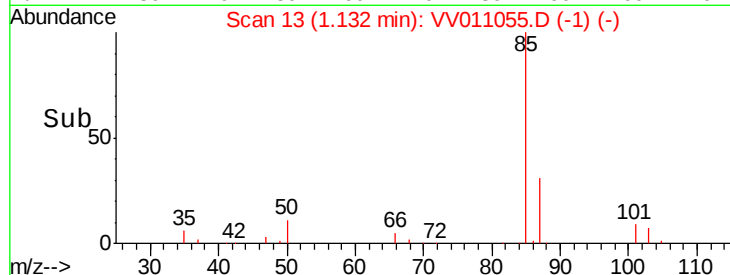
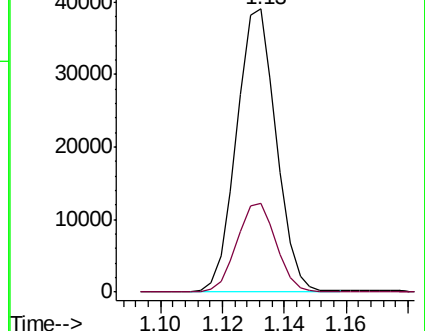
85 100

87 31.0 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 22.742 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.00 min

Lab File: VV011055.D

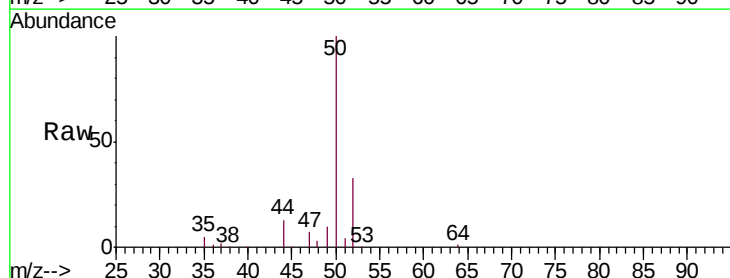
Acq: 24 May 2019 06:26

Tgt Ion: 50 Resp: 35858

Ion Ratio Lower Upper

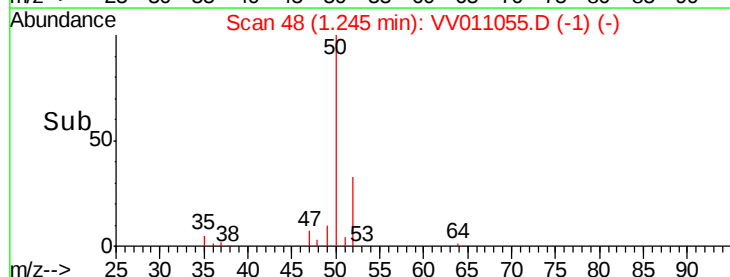
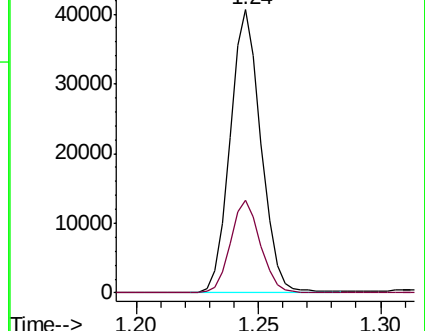
50 100

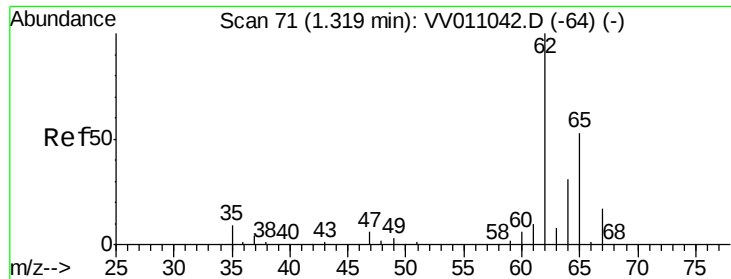
52 32.7 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 22.799 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

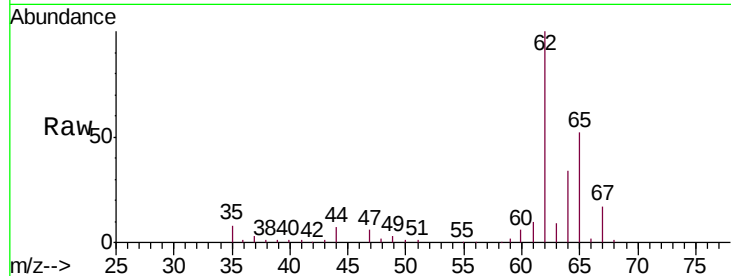
VSTD02573

Tgt Ion: 62 Resp: 36104

Ion Ratio Lower Upper

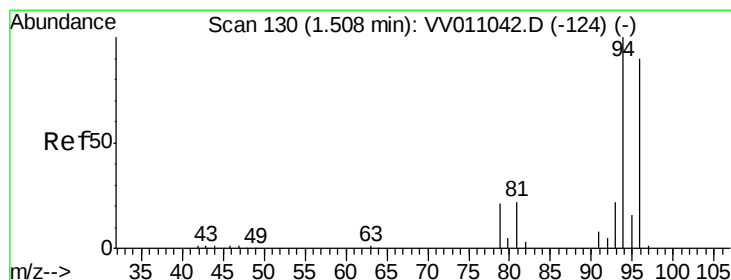
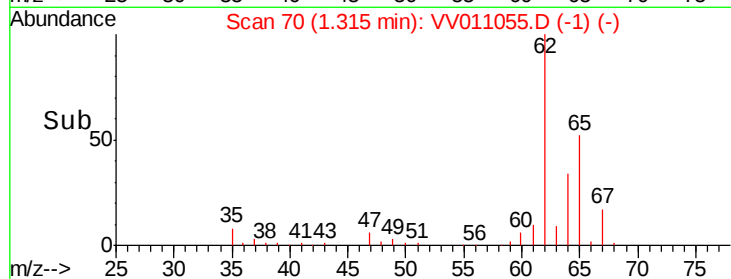
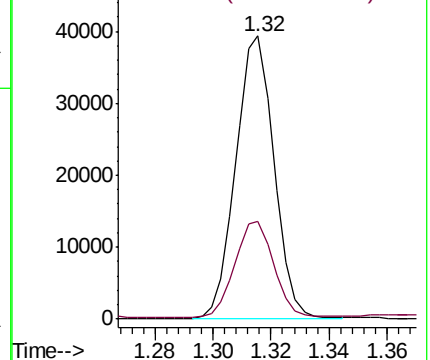
62 100

64 34.5 24.5 45.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 17.844 ug/L

RT: 1.50 min Scan# 128

Delta R.T. -0.01 min

Lab File: VV011055.D

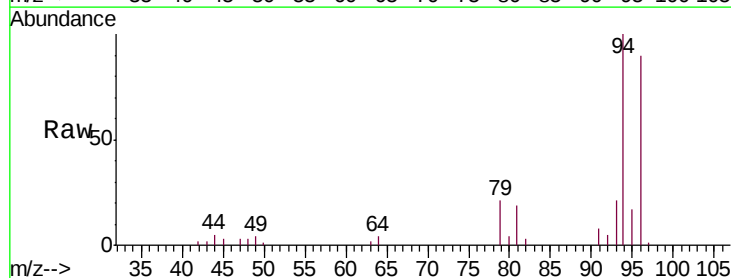
Acq: 24 May 2019 06:26

Tgt Ion: 94 Resp: 9853

Ion Ratio Lower Upper

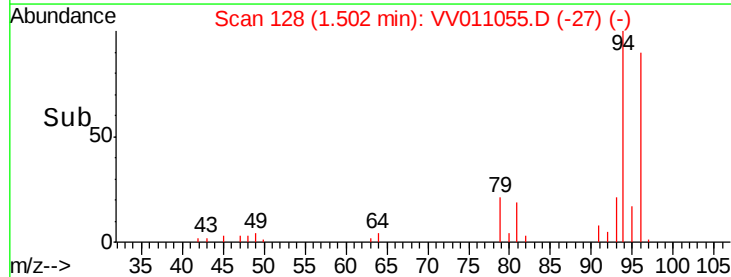
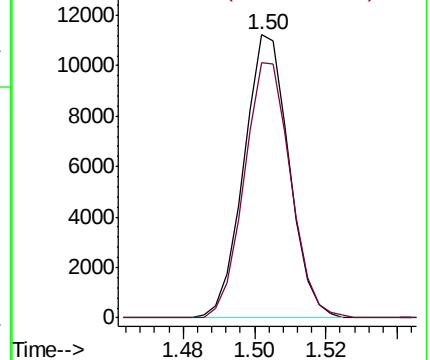
94 100

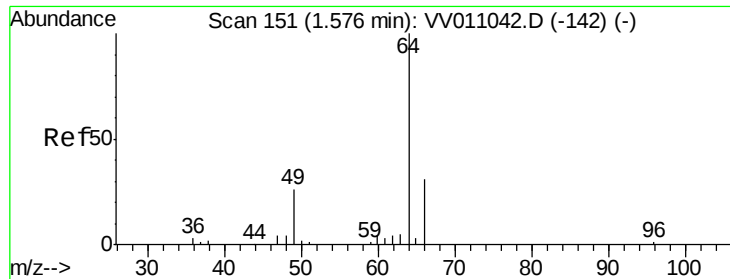
96 92.1 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 24.509 ug/L

RT: 1.57 min Scan# 149

Delta R.T. -0.01 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

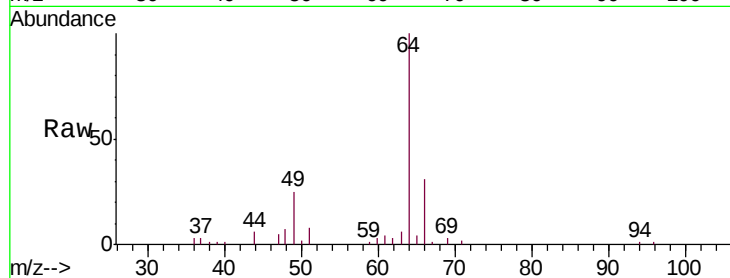
VSTD02573

Tgt Ion: 64 Resp: 19421

Ion Ratio Lower Upper

64 100

66 31.4 20.4 37.8



Abundance Ion 64.00 (63.70 to 64.70): VV011042.D (-142) (-)

Ion 66.00 (65.70 to 66.70): VV011042.D (-142) (-)

1.57

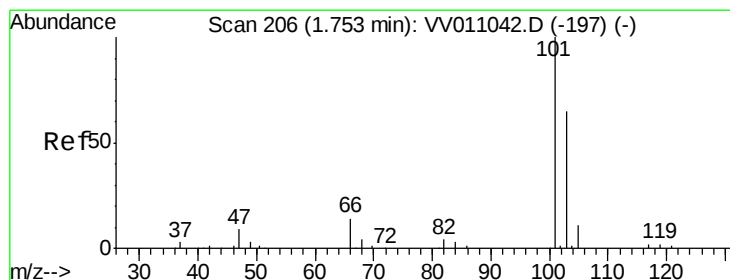
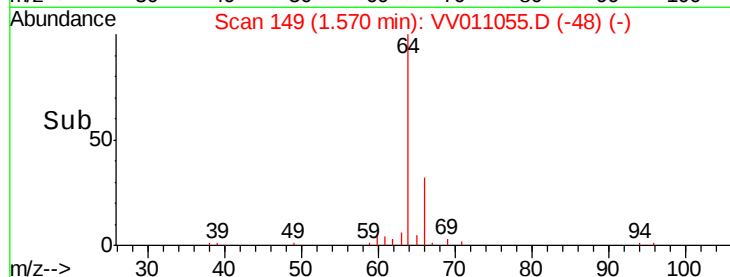
15000

10000

5000

0

Time-->



#9

Trichlorofluoromethane

Concen: 20.882 ug/L

RT: 1.75 min Scan# 204

Delta R.T. -0.01 min

Lab File: VV011055.D

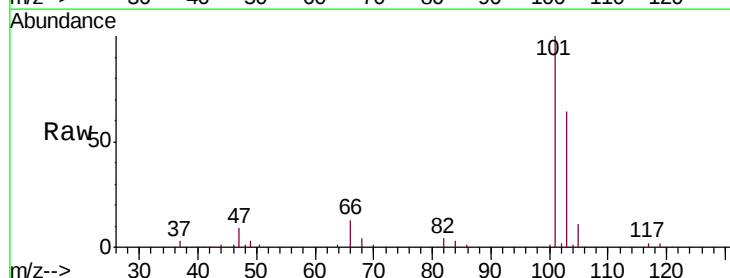
Acq: 24 May 2019 06:26

Tgt Ion: 101 Resp: 52705

Ion Ratio Lower Upper

101 100

103 64.5 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV011042.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV011042.D (-197) (-)

1.75

40000

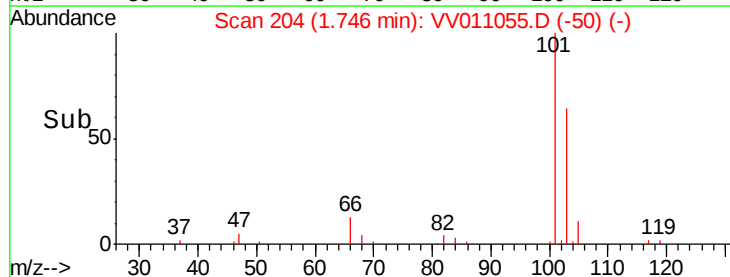
30000

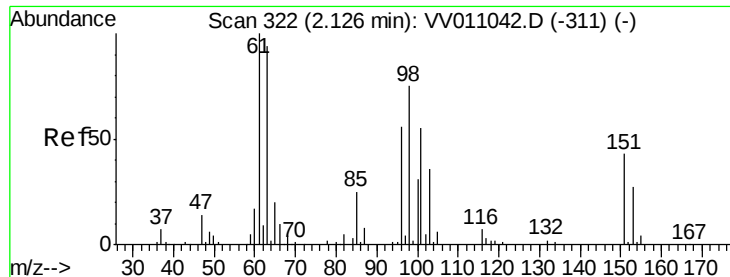
20000

10000

0

Time-->





#11

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

Concen: 21.768 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

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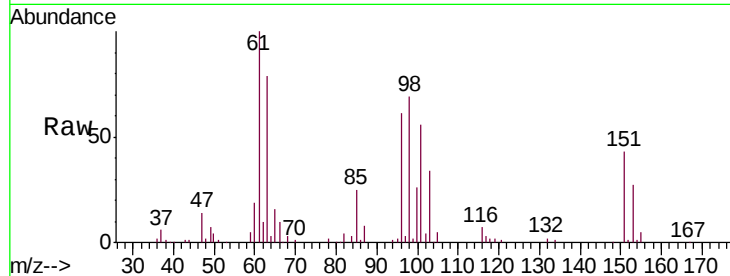
Tgt Ion:101 Resp: 31330

Ion Ratio Lower Upper

101 100

85 44.4 33.9 50.9

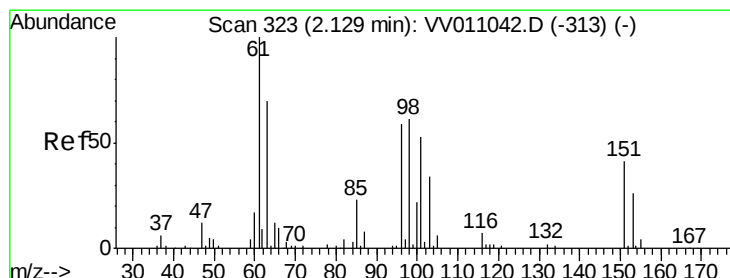
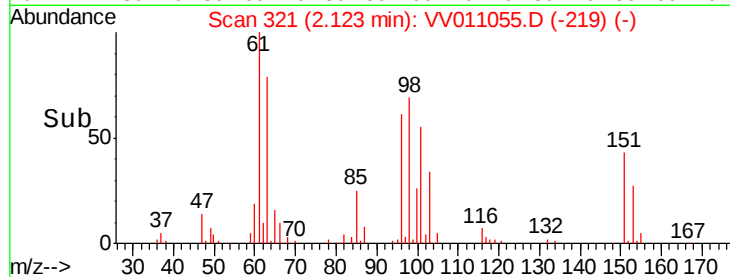
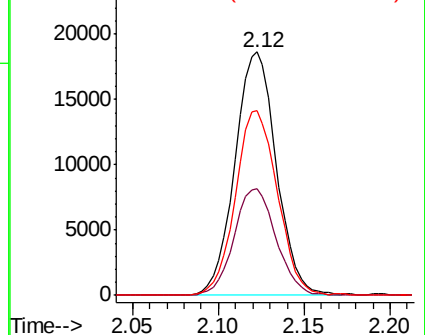
151 76.8 64.7 97.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.583 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

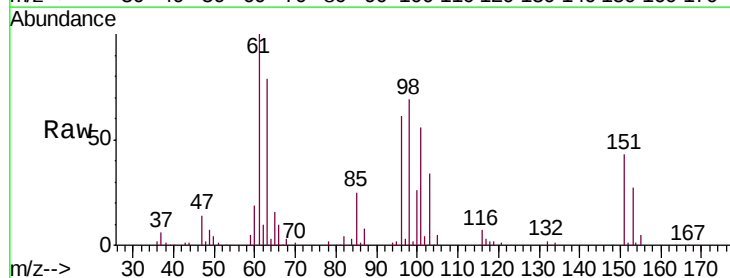
Tgt Ion: 96 Resp: 29343

Ion Ratio Lower Upper

96 100

61 163.7 117.8 218.8

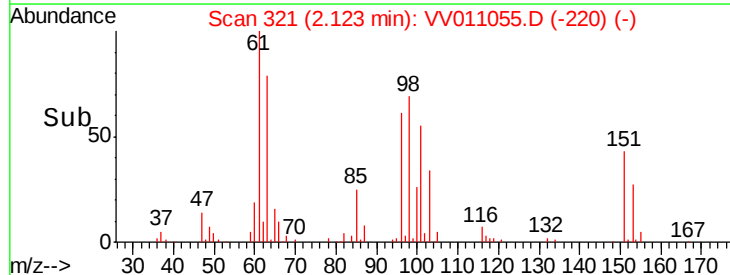
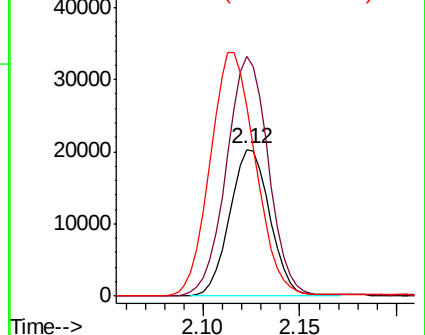
63 129.8 87.1 161.7

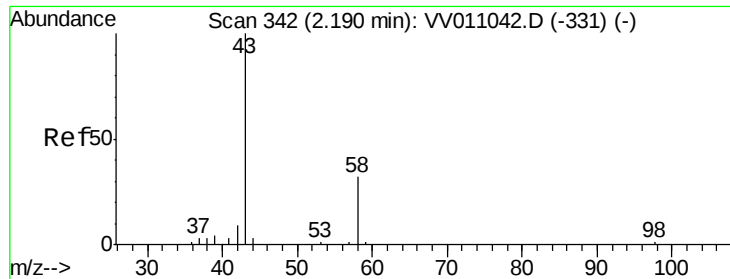


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 48.355 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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Acq: 24 May 2019 06:26

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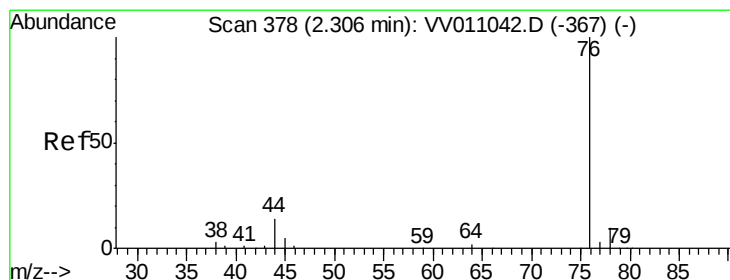
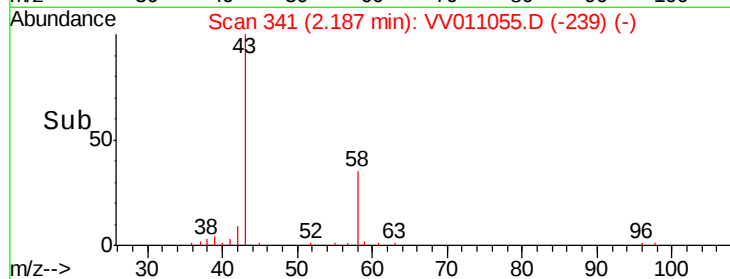
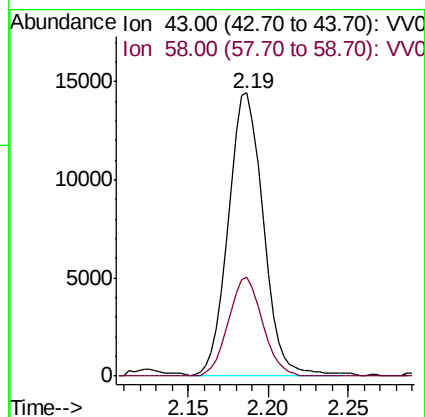
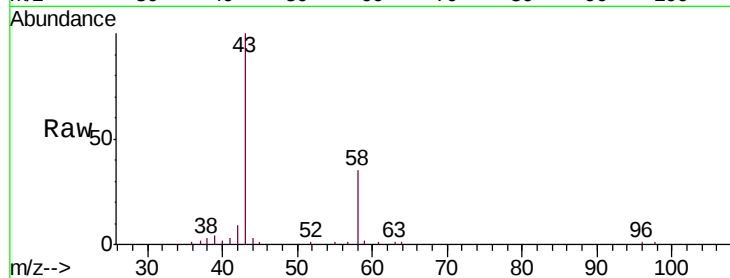
VSTD02573

Tgt Ion: 43 Resp: 21628

Ion Ratio Lower Upper

43 100

58 33.9 0.0 60.8



#14

Carbon disulfide

Concen: 22.558 ug/L

RT: 2.30 min Scan# 376

Delta R.T. -0.01 min

Lab File: VV011055.D

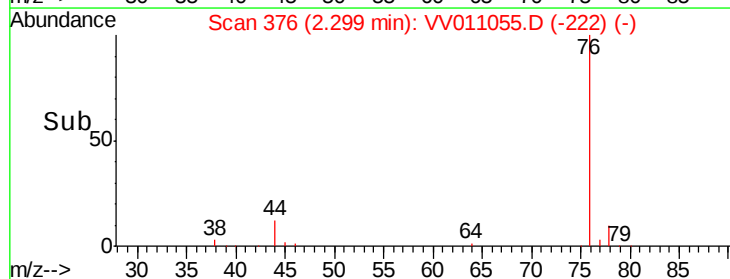
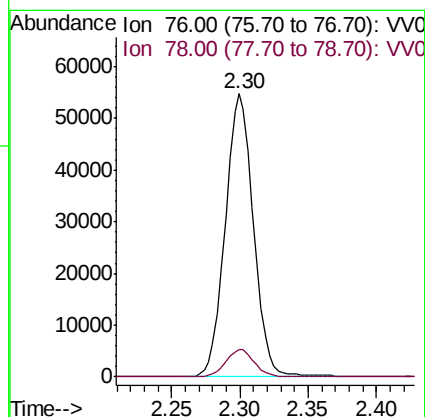
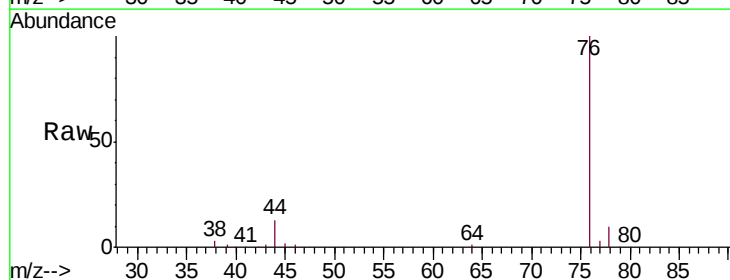
Acq: 24 May 2019 06:26

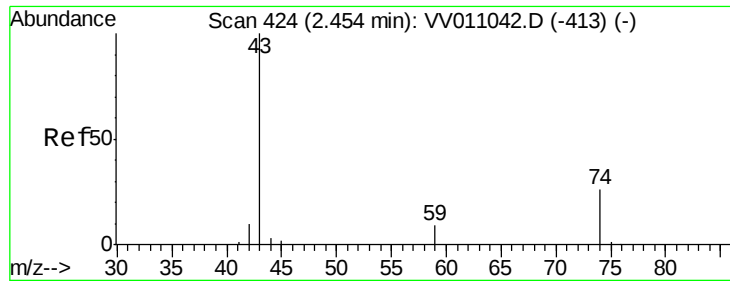
Tgt Ion: 76 Resp: 78598

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8





#15

Methyl Acetate

Concen: 31.563 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

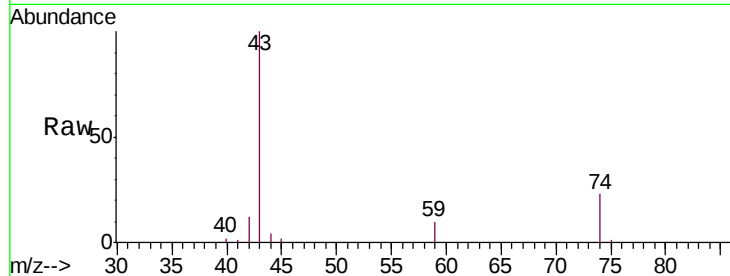
VSTD02573

Tgt Ion: 43 Resp: 27125

Ion Ratio Lower Upper

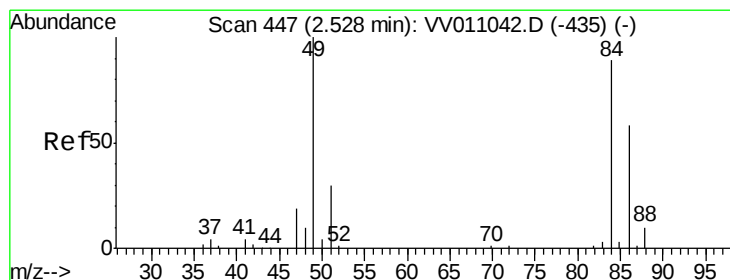
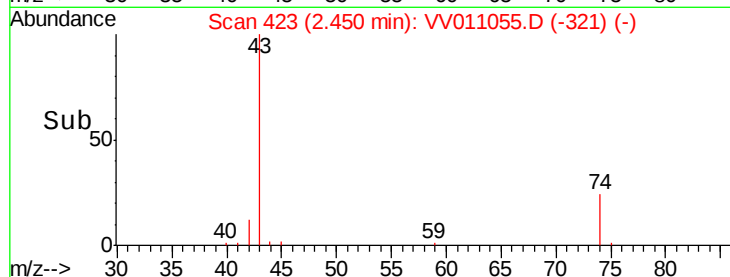
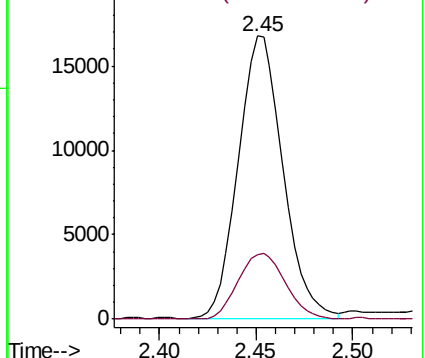
43 100

74 24.3 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 24.680 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.01 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

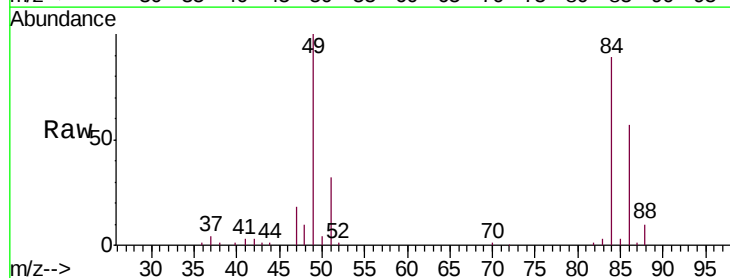
Tgt Ion: 84 Resp: 49940

Ion Ratio Lower Upper

84 100

49 112.0 77.4 143.8

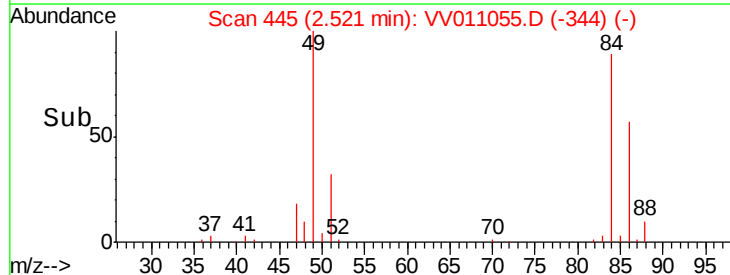
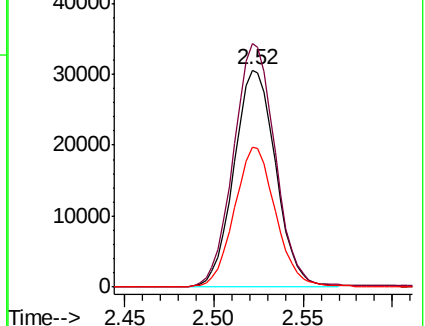
86 64.3 44.0 81.6

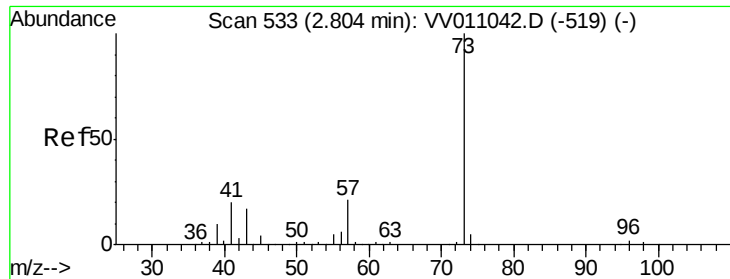


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

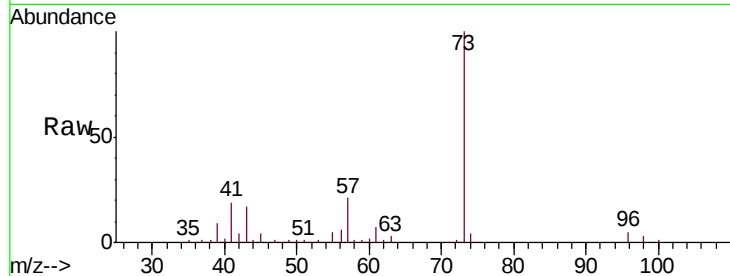




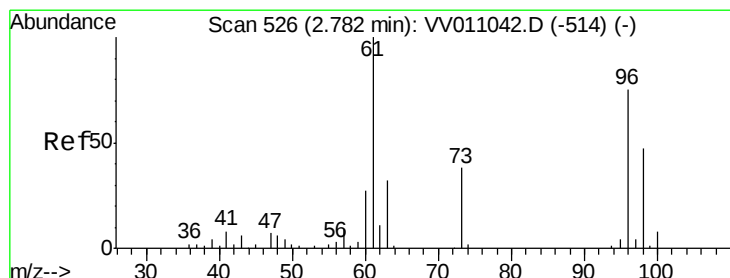
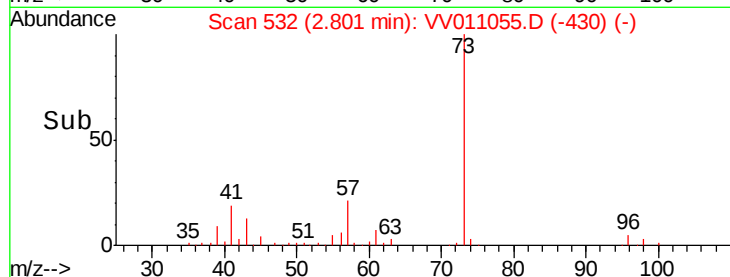
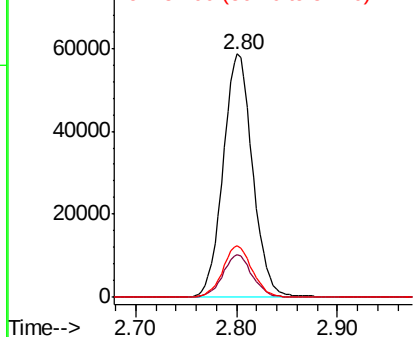
#17
Methyl tert-butyl Ether
Concen: 27.171 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Tgt Ion: 73 Resp: 119620
Ion Ratio Lower Upper
73 100
43 17.5 14.5 21.7
57 21.1 17.3 25.9

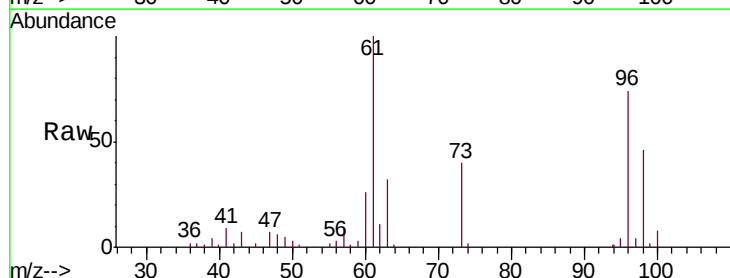


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

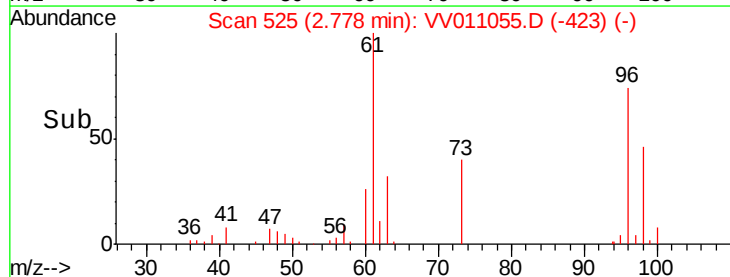
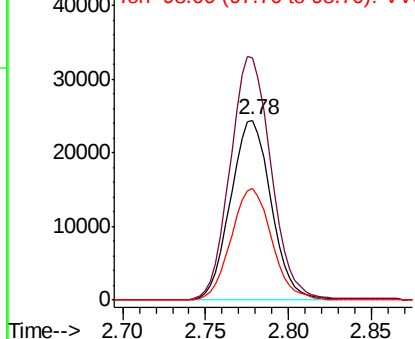


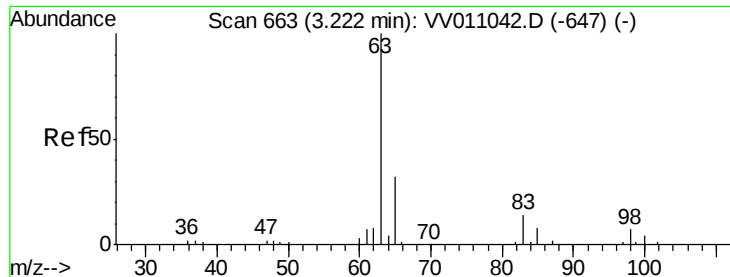
#18
trans-1,2-Dichloroethene
Concen: 24.364 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

Tgt Ion: 96 Resp: 41820
Ion Ratio Lower Upper
96 100
61 135.0 89.7 166.5
98 62.0 44.5 82.7



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

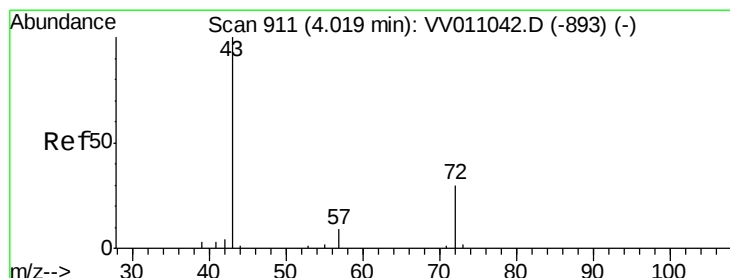
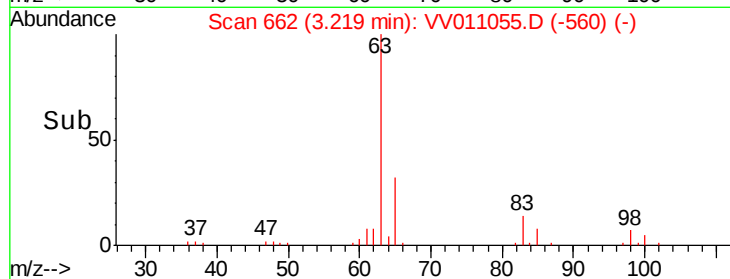
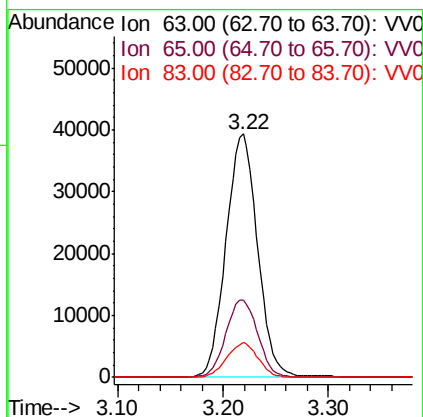
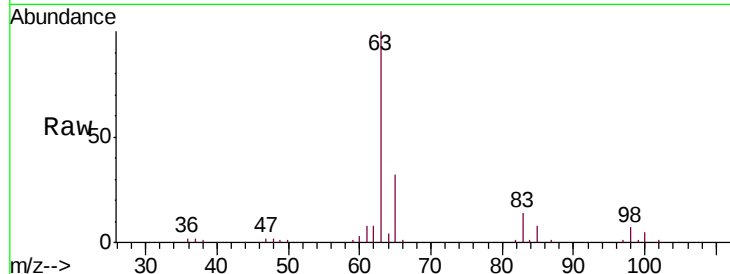




#19
 1,1-Dichloroethane
 Concen: 26.133 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

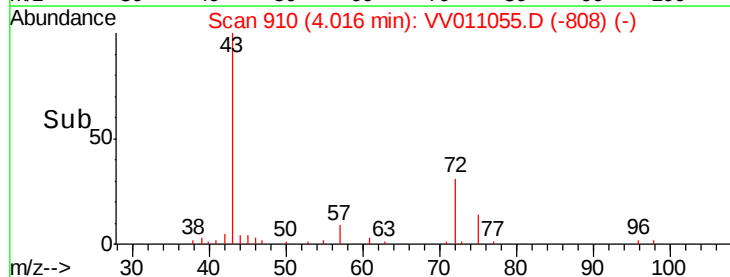
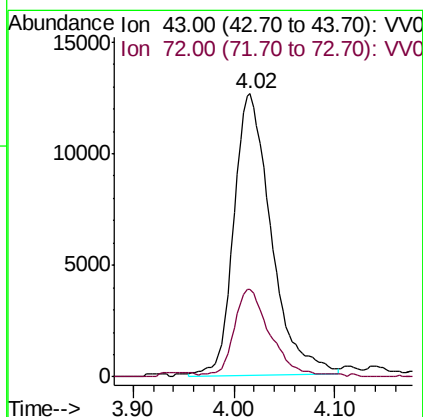
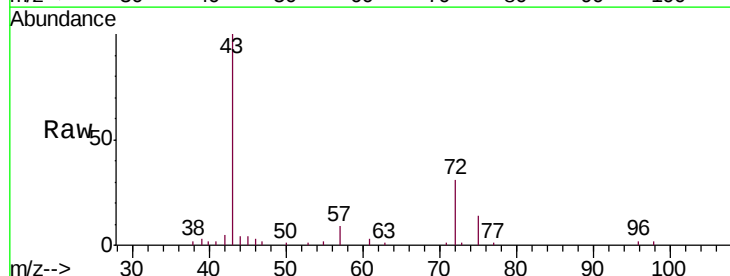
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

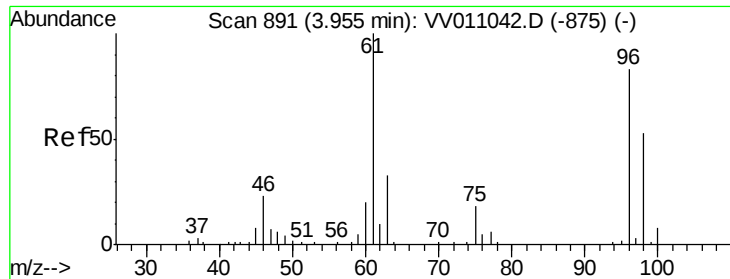
Tgt Ion: 63 Resp: 81675
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.1 39.3
 83 14.2 9.1 16.9



#21
 2-Butanone
 Concen: 53.048 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion: 43 Resp: 32470
 Ion Ratio Lower Upper
 43 100
 72 28.8 13.1 39.3

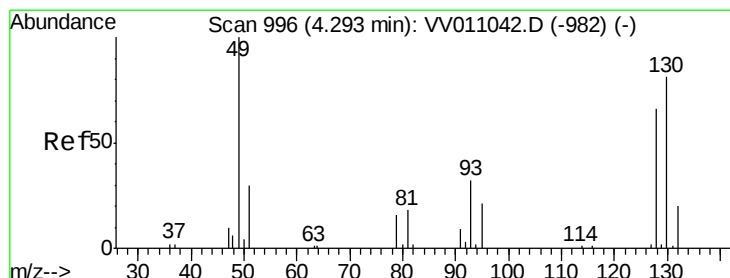
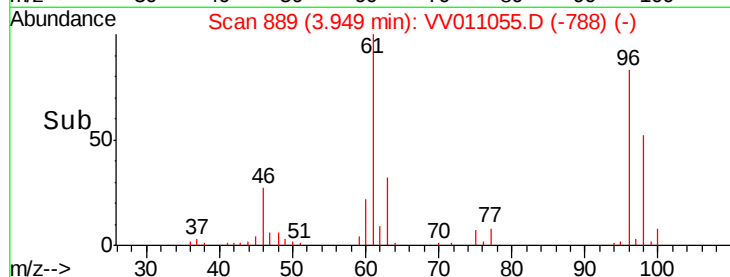
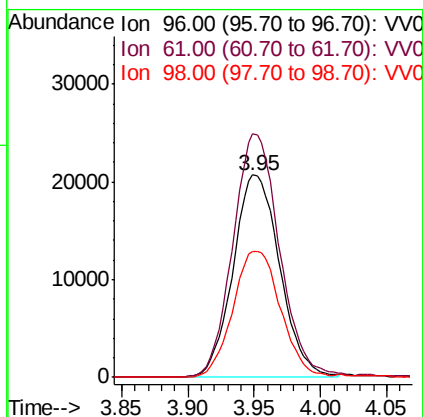
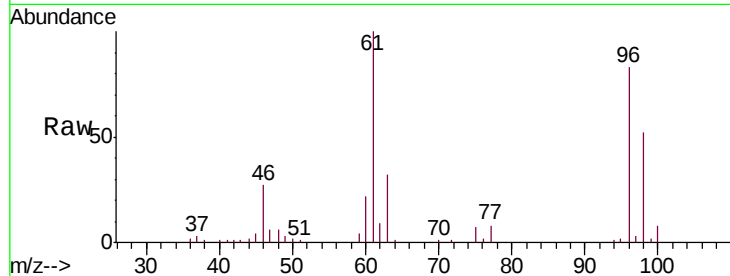




#22
 cis-1,2-Dichloroethene
 Concen: 26.542 ug/L
 RT: 3.95 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

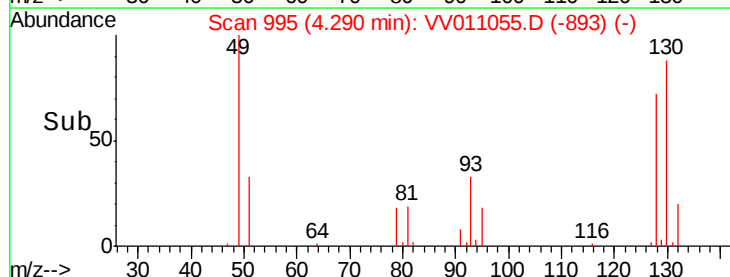
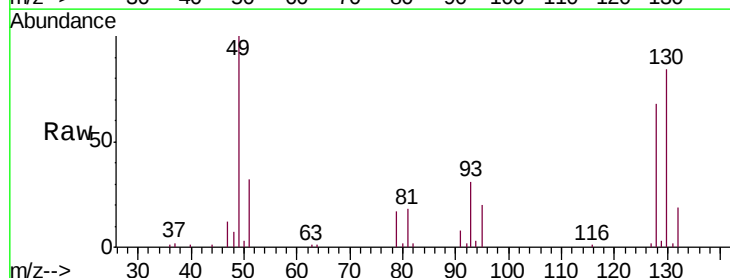
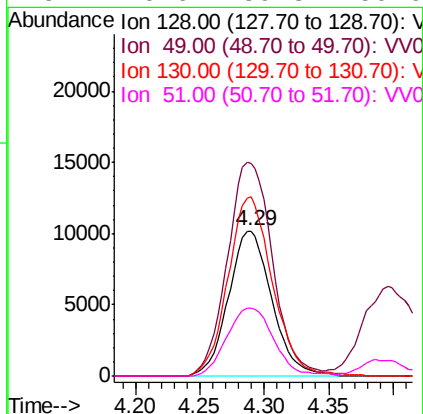
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

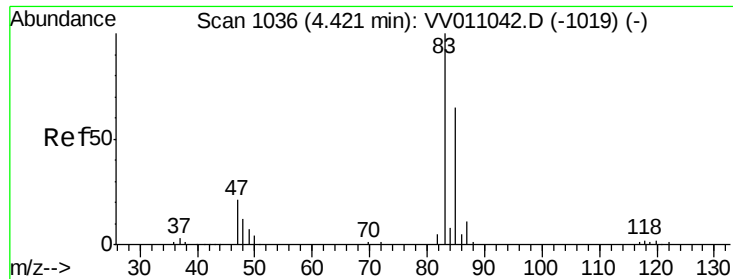
Tgt Ion: 96 Resp: 50725
 Ion Ratio Lower Upper
 96 100
 61 120.2 85.4 158.6
 98 62.4 45.1 83.7



#23
 Bromochloromethane
 Concen: 26.185 ug/L
 RT: 4.29 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion: 128 Resp: 23716
 Ion Ratio Lower Upper
 128 100
 49 146.2 111.6 207.4
 130 123.1 95.5 177.3
 51 46.6 39.8 59.6

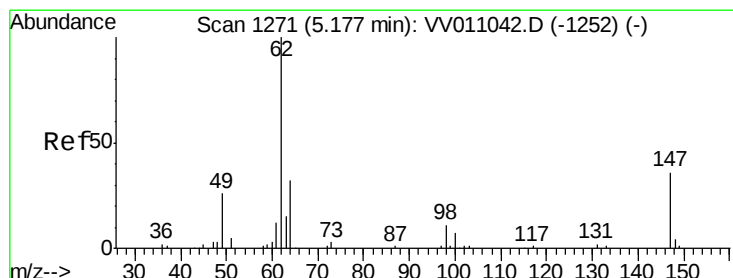
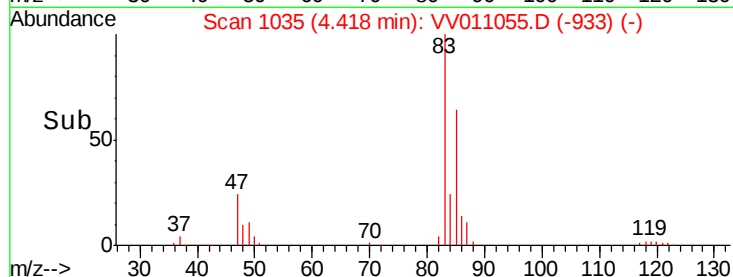
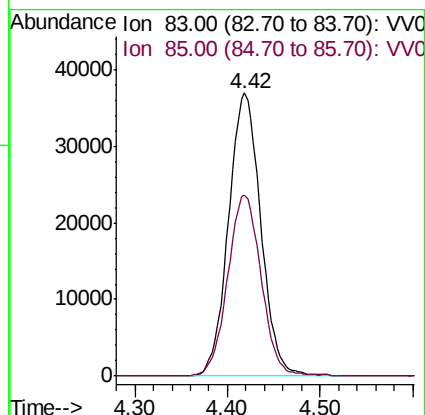
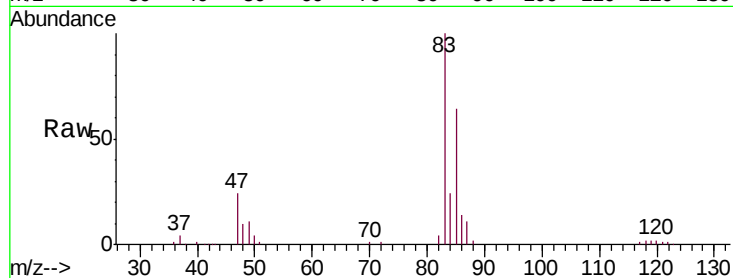




#25
Chloroform
Concen: 25.273 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

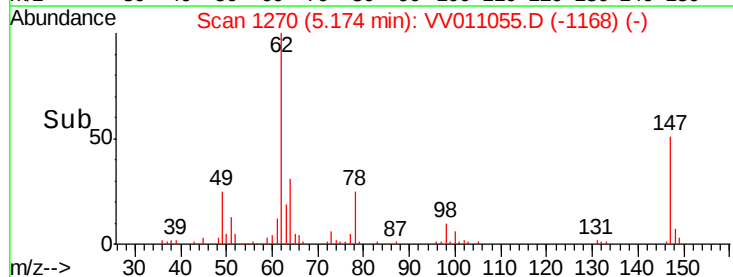
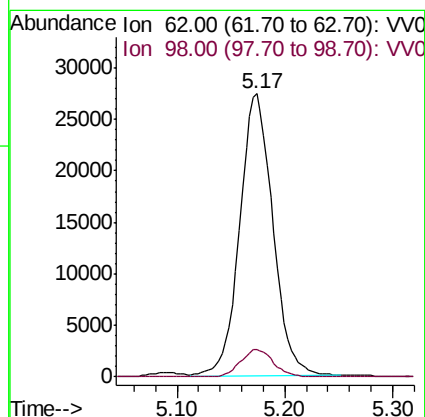
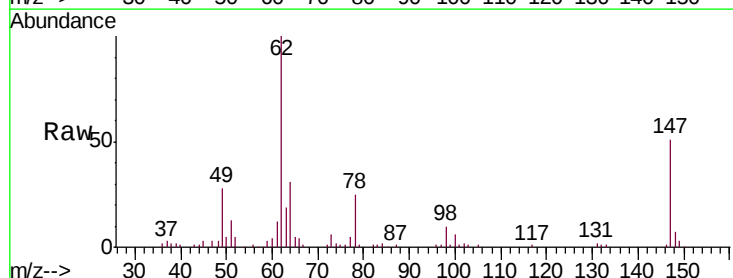
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

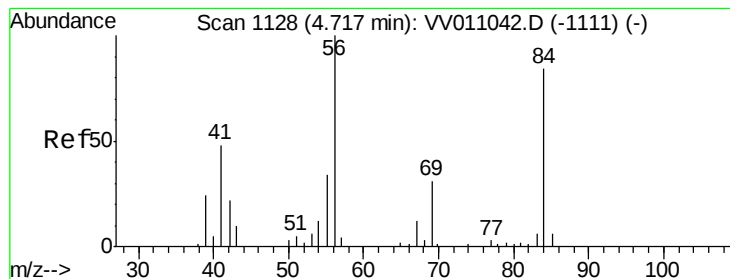
Tgt Ion: 83 Resp: 89376
Ion Ratio Lower Upper
83 100
85 66.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 26.864 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

Tgt Ion: 62 Resp: 58401
Ion Ratio Lower Upper
62 100
98 9.8 8.6 13.0





#30

Cyclohexane

Concen: 21.641 ug/L

RT: 4.71 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

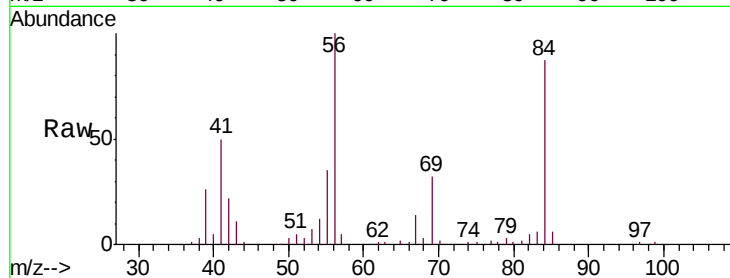
Tgt Ion: 56 Resp: 52929

Ion Ratio Lower Upper

56 100

69 32.4 25.1 37.7

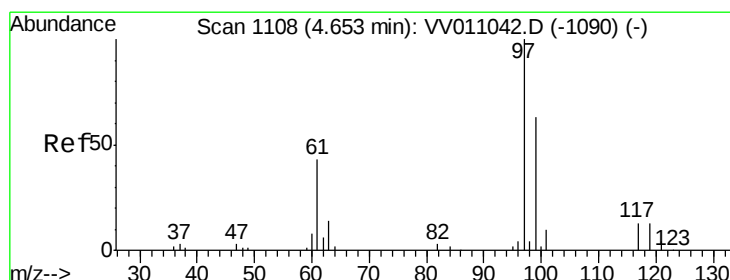
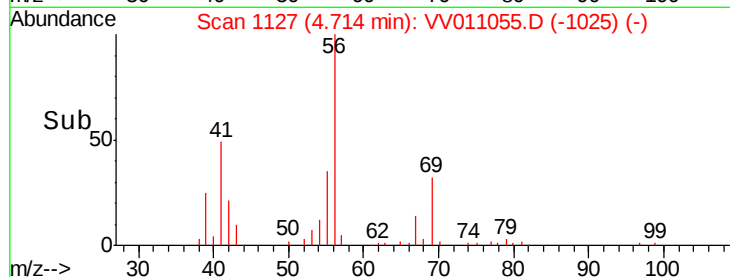
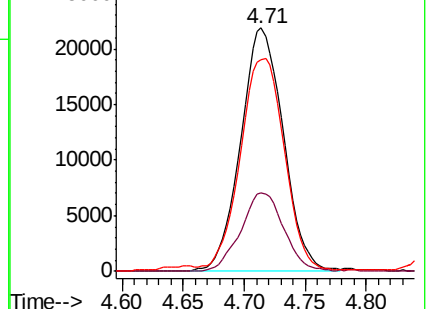
84 89.9 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VV011042.D (-1111) (-)

Ion 69.00 (68.70 to 69.70): VV011042.D (-1111) (-)

Ion 84.00 (83.70 to 84.70): VV011042.D (-1111) (-)



#31

1,1,1-Trichloroethane

Concen: 25.059 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

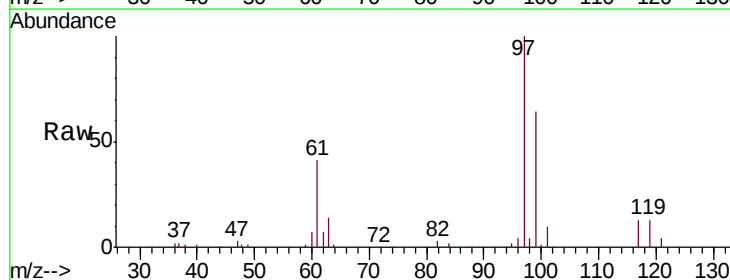
Tgt Ion: 97 Resp: 66346

Ion Ratio Lower Upper

97 100

99 63.0 51.0 76.4

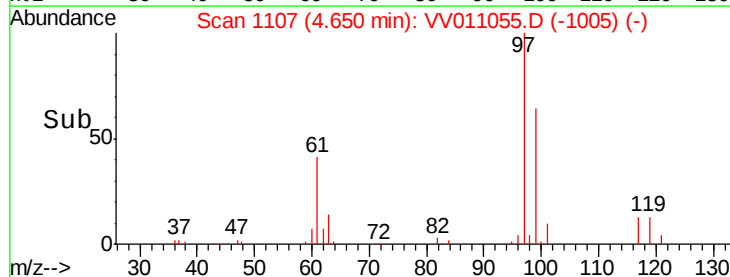
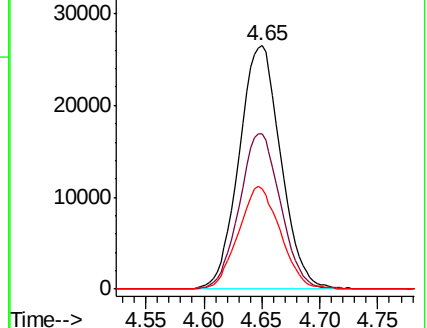
61 41.9 33.9 50.9

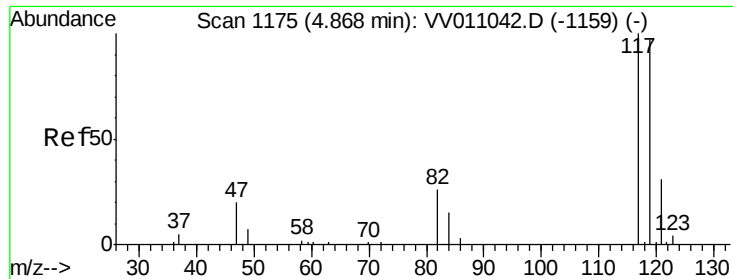


Abundance Ion 97.00 (96.70 to 97.70): VV011042.D (-1090) (-)

Ion 99.00 (98.70 to 99.70): VV011042.D (-1090) (-)

Ion 61.00 (60.70 to 61.70): VV011042.D (-1090) (-)





#32

Carbon tetrachloride

Concen: 22.611 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

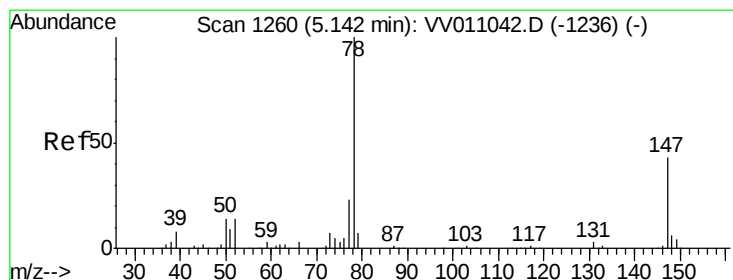
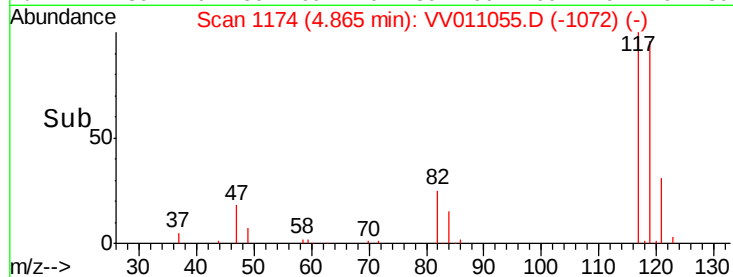
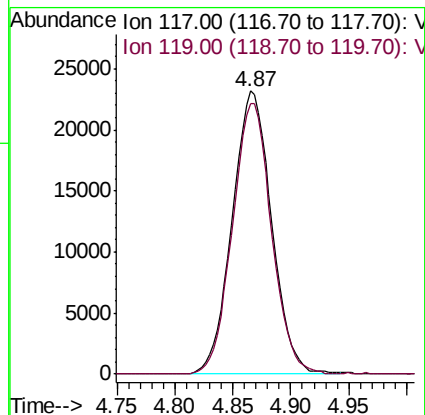
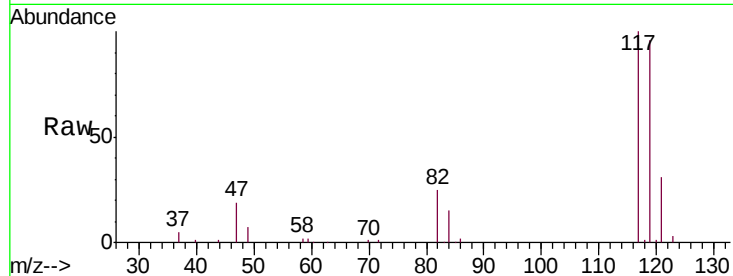
VSTD02573

Tgt Ion:117 Resp: 54593

Ion Ratio Lower Upper

117 100

119 94.9 76.1 114.1



#34

Benzene

Concen: 27.473 ug/L

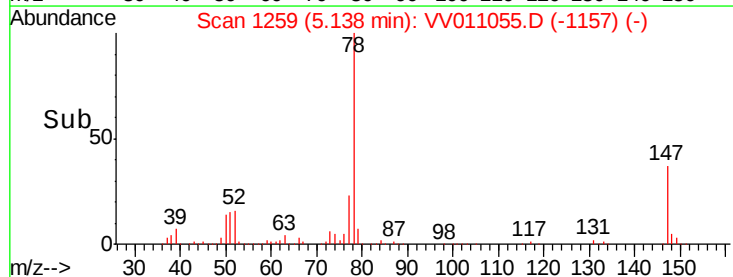
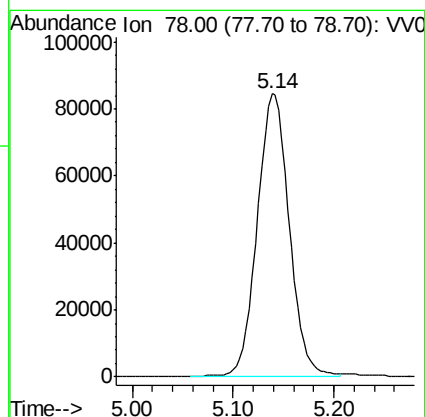
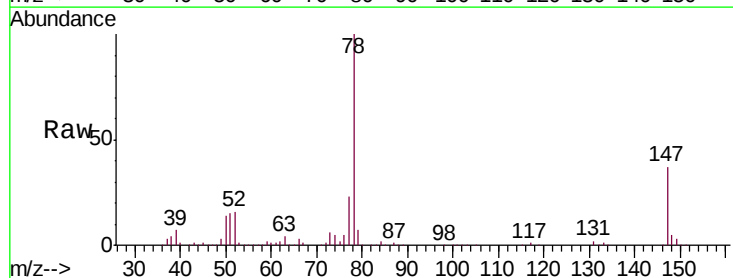
RT: 5.14 min Scan# 1259

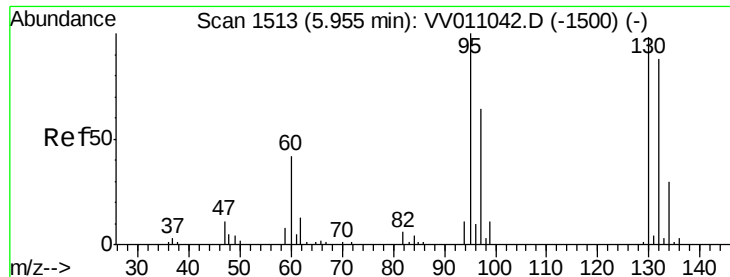
Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Tgt Ion: 78 Resp: 186402





#35

Trichloroethene

Concen: 24.757 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

Tgt Ion: 95 Resp: 46411

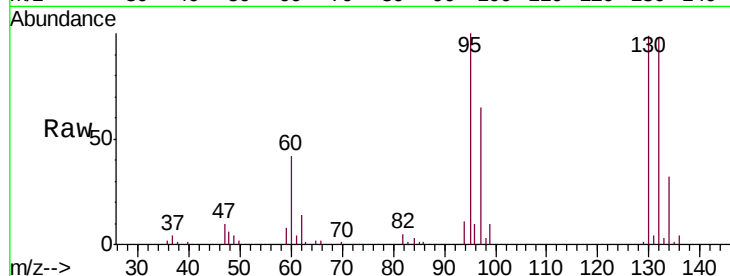
Ion Ratio Lower Upper

95 100

97 63.8 43.4 80.6

132 94.6 68.8 127.8

130 99.2 69.9 129.9

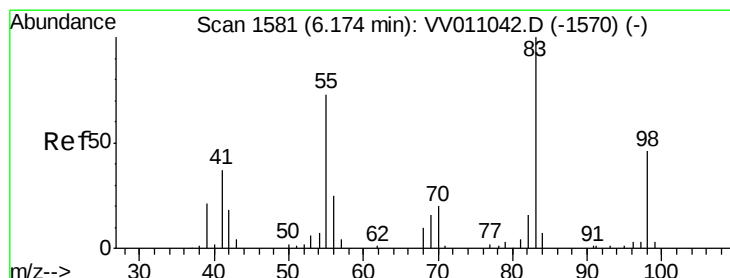
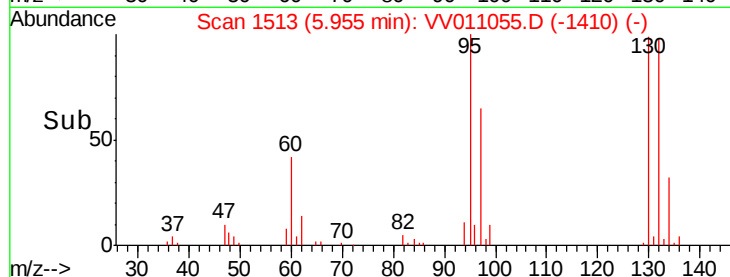
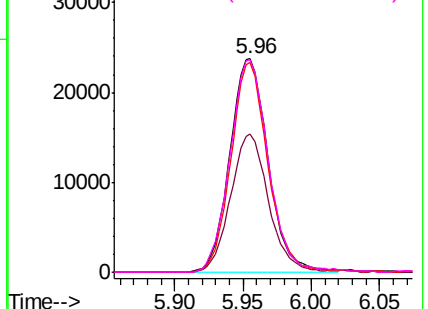


Abundance Ion 95.00 (94.70 to 95.70): VV011042.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV011042.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV011042.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV011042.D (-1500) (-)



#36

Methylcyclohexane

Concen: 21.696 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

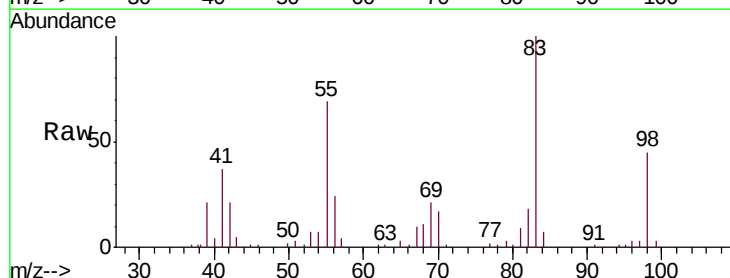
Tgt Ion: 83 Resp: 60129

Ion Ratio Lower Upper

83 100

55 71.1 57.0 85.4

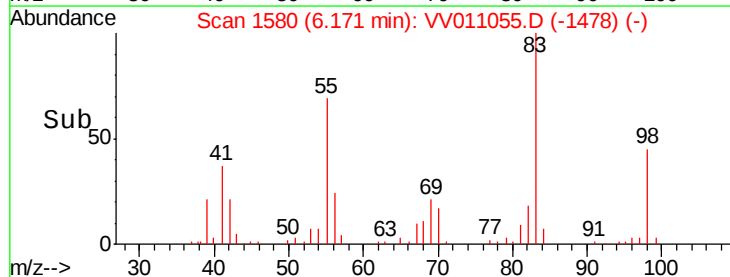
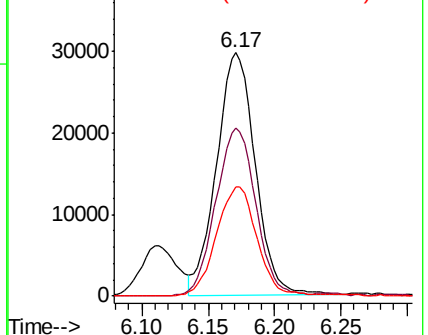
98 46.6 36.2 54.4

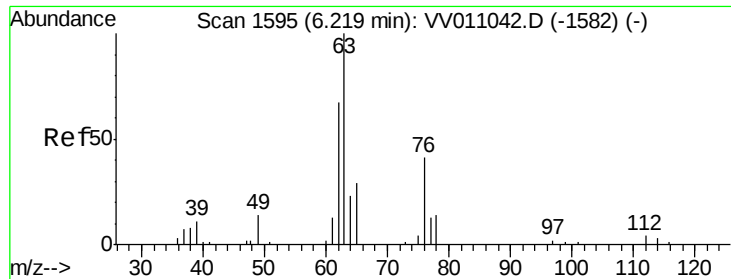


Abundance Ion 83.00 (82.70 to 83.70): VV011042.D (-1570) (-)

Ion 55.00 (54.70 to 55.70): VV011042.D (-1570) (-)

Ion 98.00 (97.70 to 98.70): VV011042.D (-1570) (-)

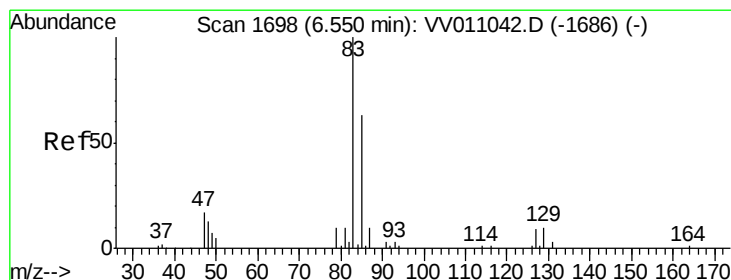
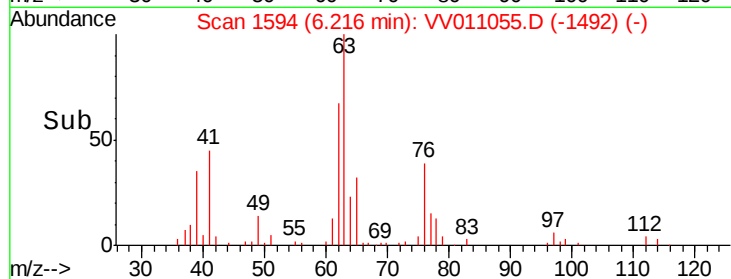
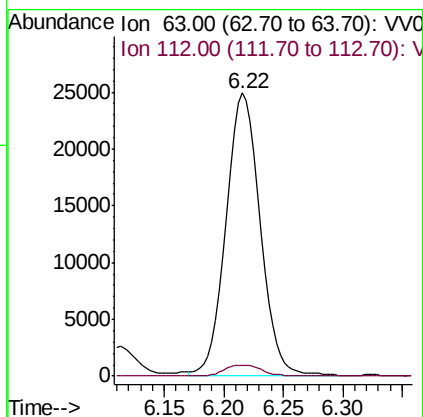
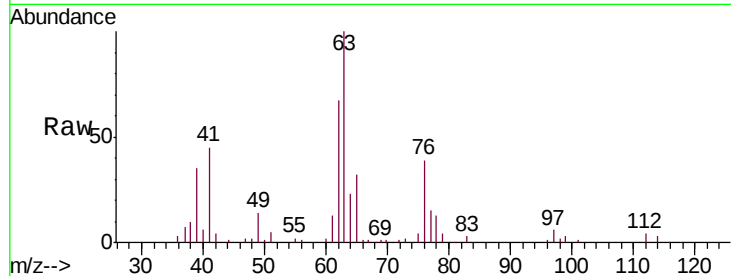




#40
 1,2-Dichloropropane
 Concen: 28.000 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

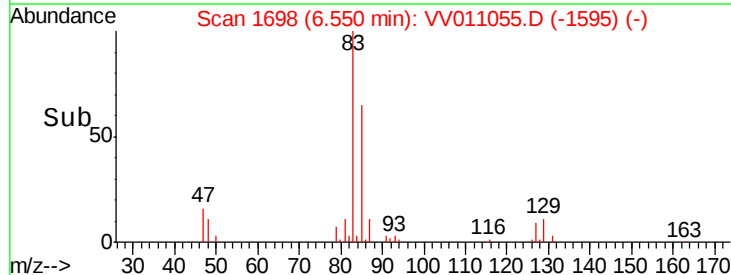
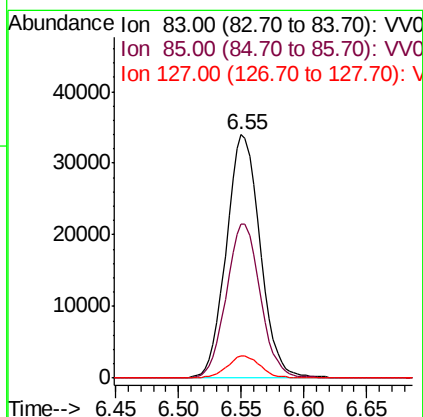
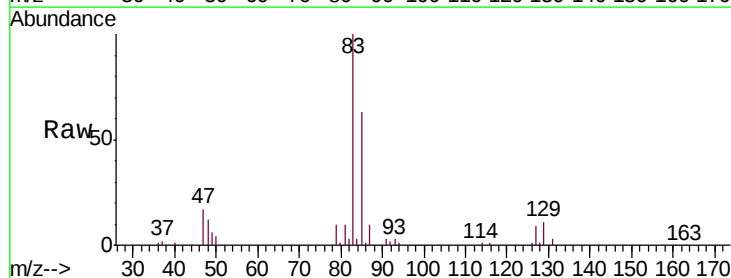
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02573

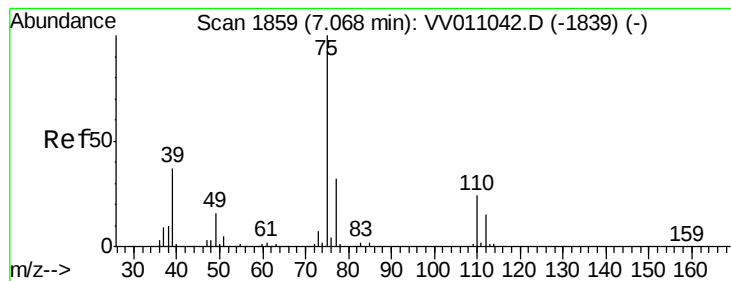
Tgt Ion: 63 Resp: 49929
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.6 5.4#



#41
 Bromodichloromethane
 Concen: 26.822 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion: 83 Resp: 63927
 Ion Ratio Lower Upper
 83 100
 85 63.4 46.7 86.7
 127 9.1 7.1 10.7



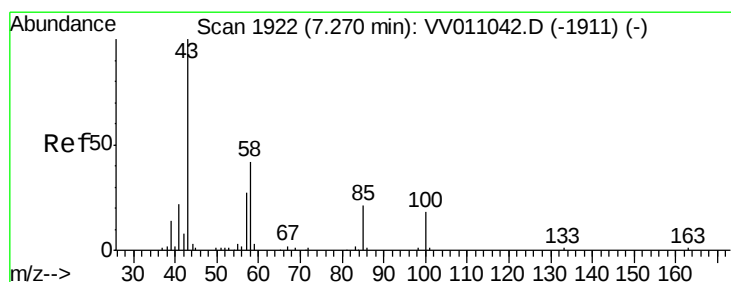
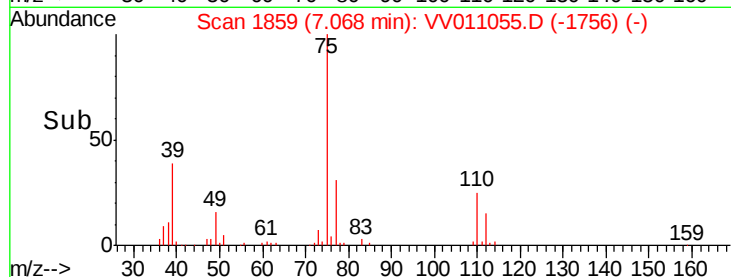
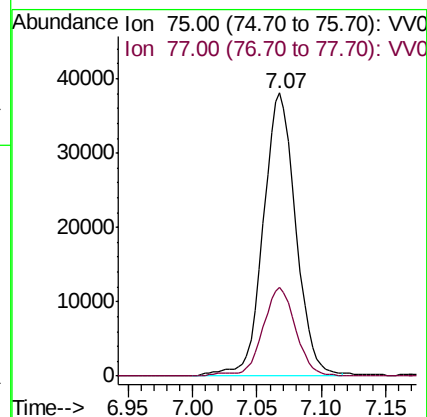
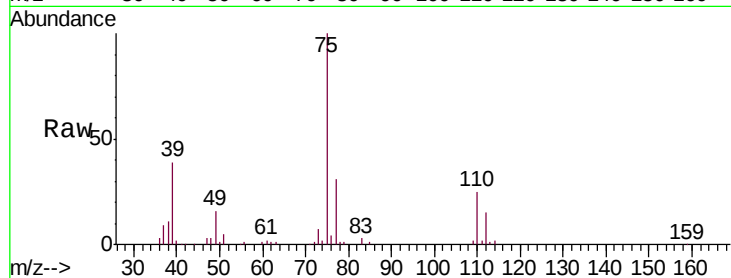


#42

cis-1,3-Dichloropropene
 Concen: 25.333 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

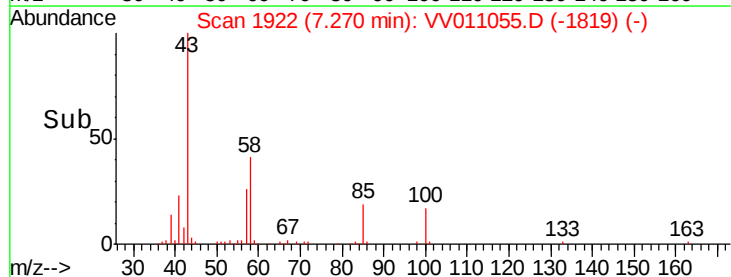
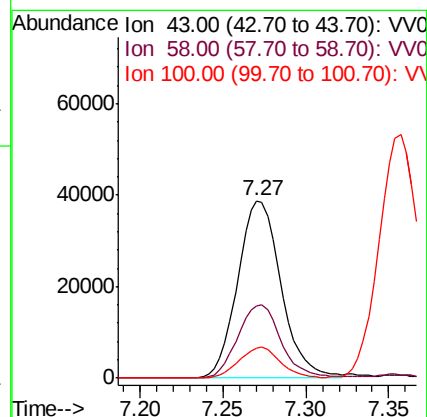
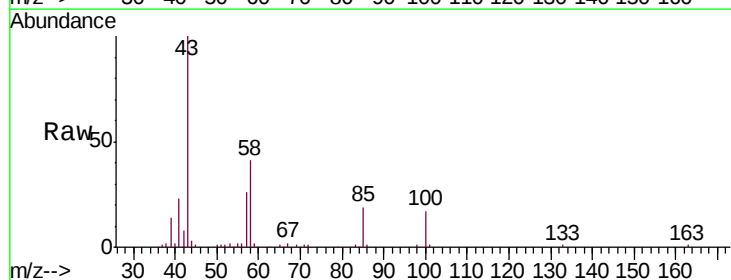
Tgt Ion: 75 Resp: 67239
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.9 42.5

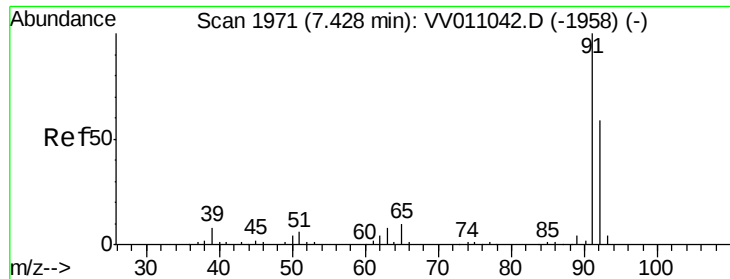


#43

4-Methyl-2-pentanone
 Concen: 55.213 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion: 43 Resp: 70575
 Ion Ratio Lower Upper
 43 100
 58 41.5 33.1 49.7
 100 16.8 13.1 19.7





#44

Toluene

Concen: 26.769 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

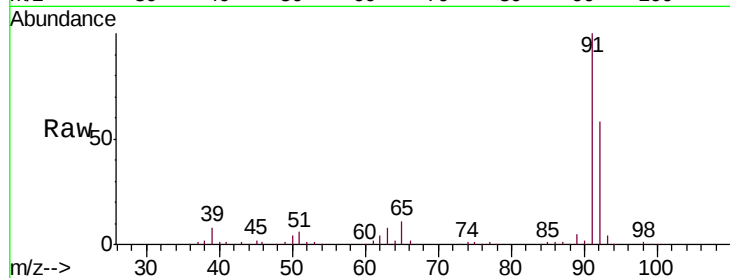
VSTD02573

Tgt Ion: 91 Resp: 201557

Ion Ratio Lower Upper

91 100

92 57.7 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV011042.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV011042.D (-1958) (-)

7.43

120000

100000

80000

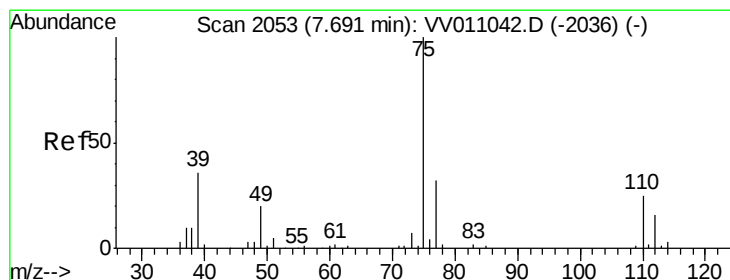
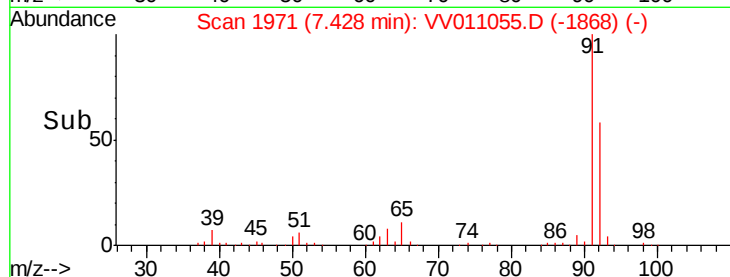
60000

40000

20000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.544 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011055.D

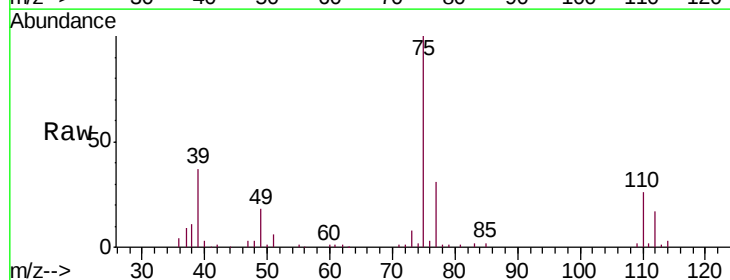
Acq: 24 May 2019 06:26

Tgt Ion: 75 Resp: 54875

Ion Ratio Lower Upper

75 100

77 31.3 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV011042.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV011042.D (-2036) (-)

7.69

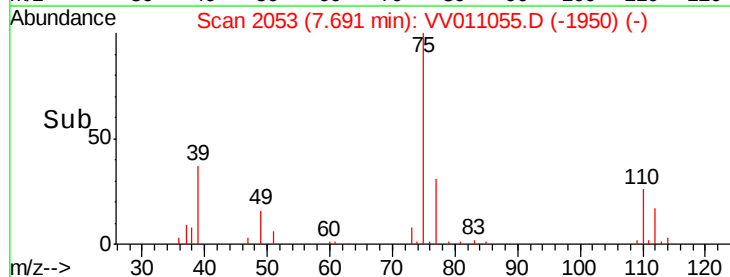
30000

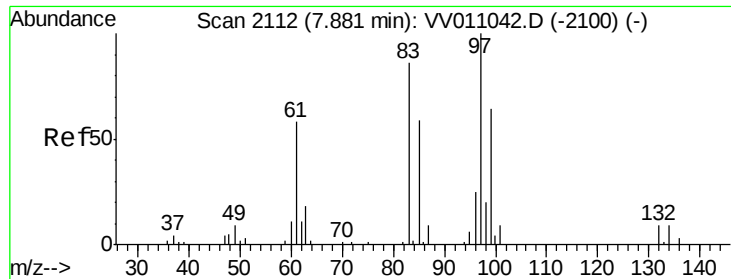
20000

10000

0

Time-->

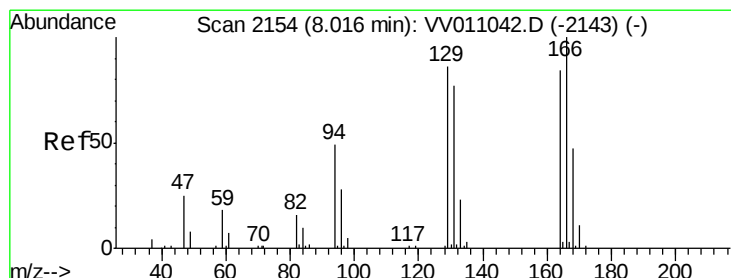
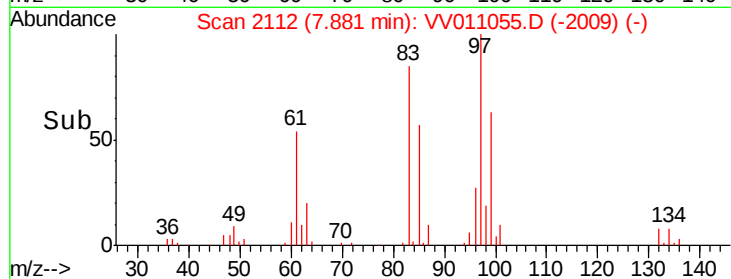
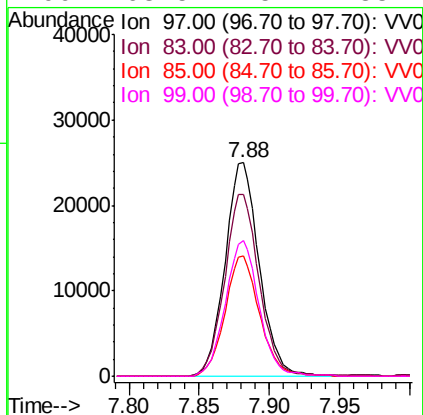
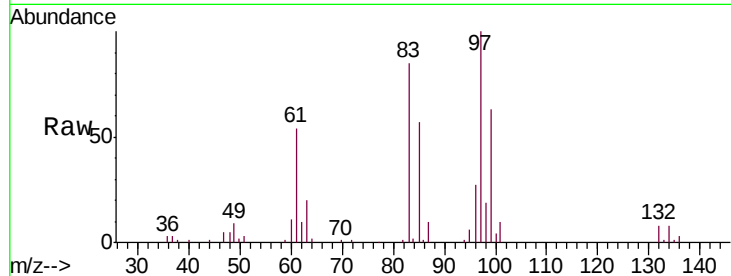




#46
1,1,2-Trichloroethane
Concen: 27.876 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

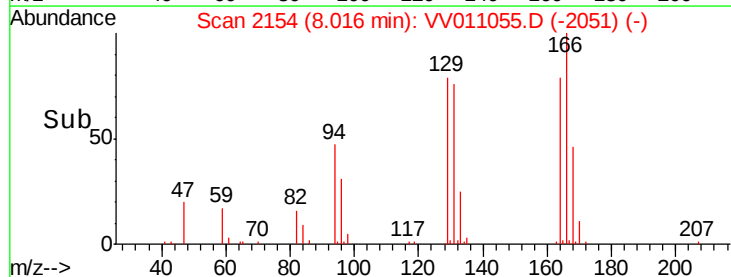
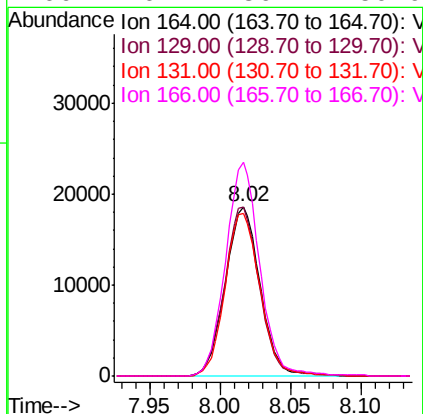
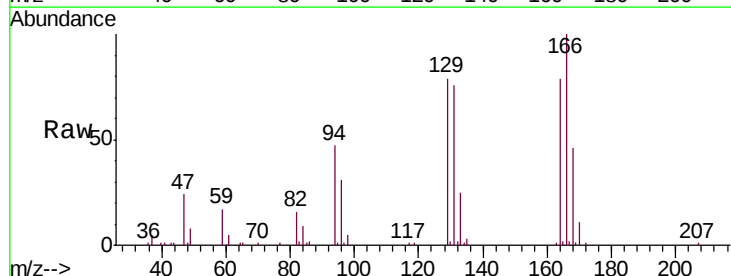
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

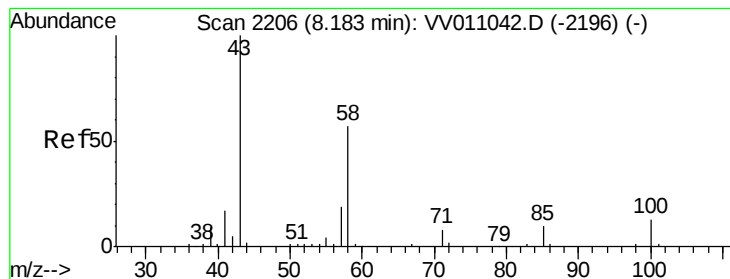
Tgt Ion:	97	Resp:	42356
Ion	Ratio	Lower	Upper
97	100		
83	85.3	61.6	114.4
85	56.5	40.2	74.6
99	63.5	45.1	83.7



#47
Tetrachloroethene
Concen: 21.979 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011055.D
Acq: 24 May 2019 06:26

Tgt Ion:	164	Resp:	32163
Ion	Ratio	Lower	Upper
164	100		
129	99.7	67.8	125.8
131	96.3	64.1	119.1
166	126.2	86.1	159.9





#49

2-Hexanone

Concen: 43.679 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Tgt Ion: 43 Resp: 40765

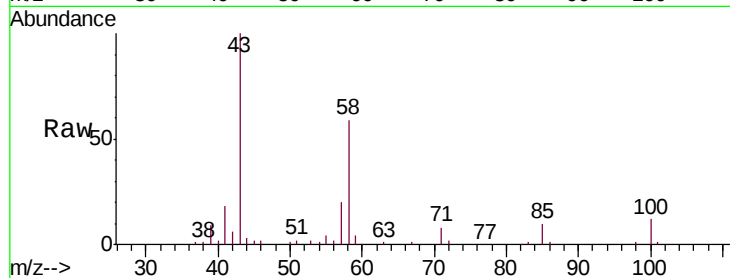
Ion Ratio Lower Upper

43 100

58 58.4 46.0 69.0

57 20.0 14.5 21.7

100 13.6 10.3 15.5

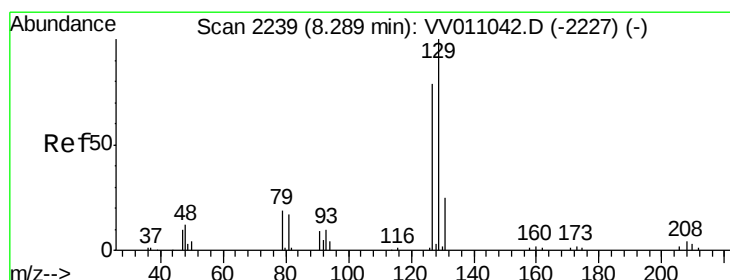
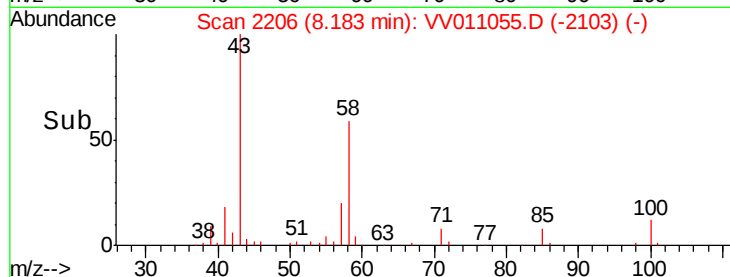
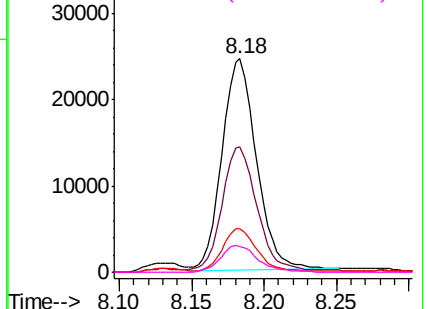


Abundance Ion 43.00 (42.70 to 43.70): VV011042.D (-2196) (-)

Ion 58.00 (57.70 to 58.70): VV011042.D (-2196) (-)

Ion 57.00 (56.70 to 57.70): VV011042.D (-2196) (-)

Ion 100.00 (99.70 to 100.70): VV011042.D (-2196) (-)



#50

Dibromochloromethane

Concen: 25.356 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VV011055.D

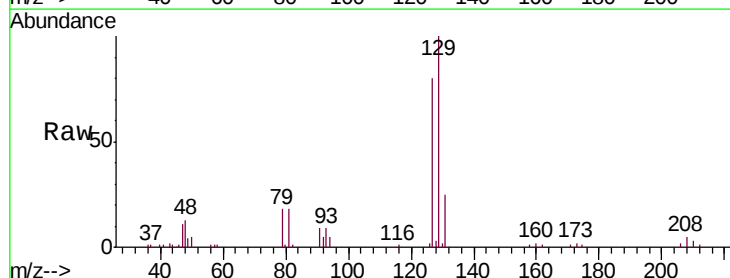
Acq: 24 May 2019 06:26

Tgt Ion: 129 Resp: 45347

Ion Ratio Lower Upper

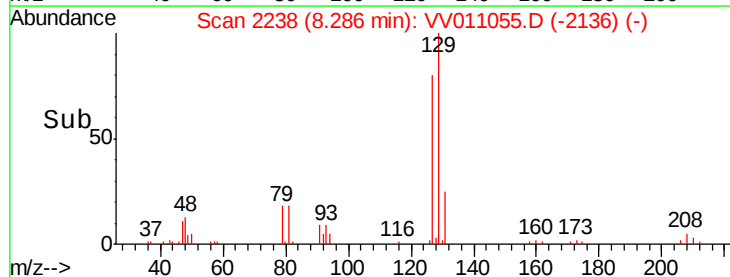
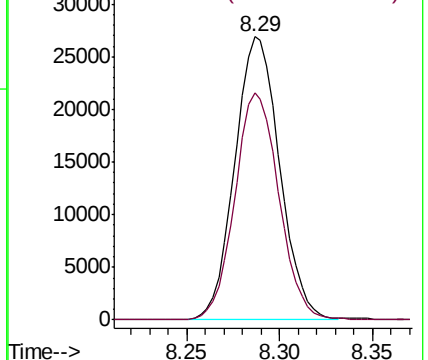
129 100

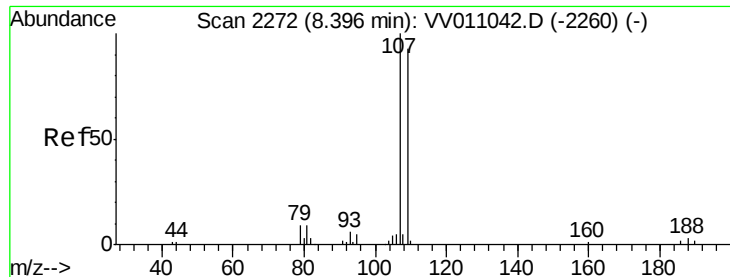
127 80.3 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): VV011042.D (-2227) (-)

Ion 127.00 (126.70 to 127.70): VV011042.D (-2227) (-)

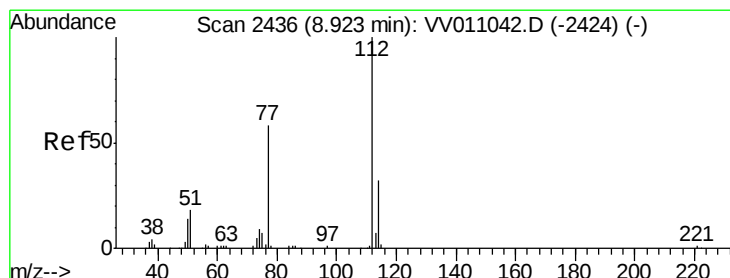
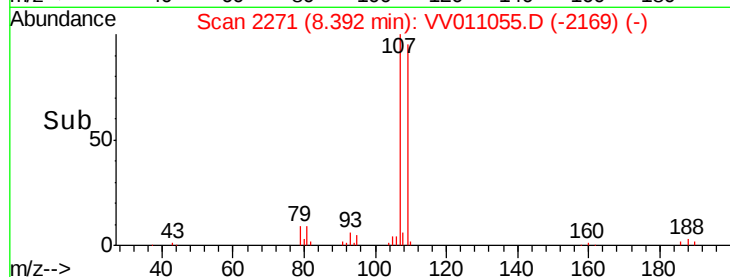
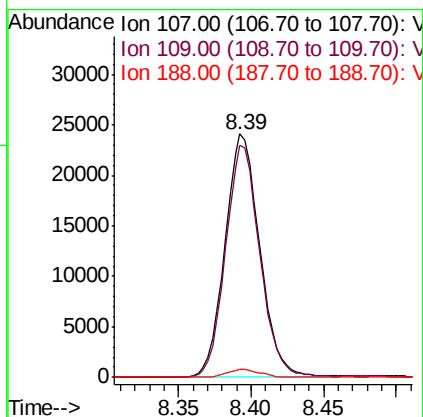
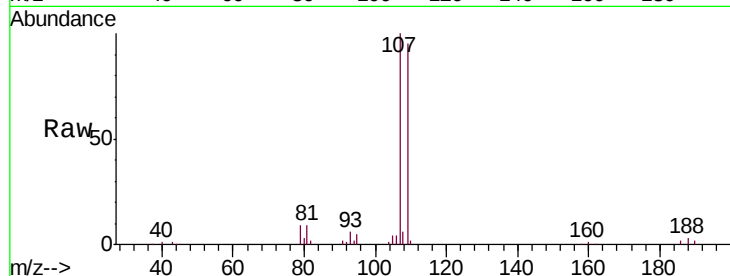




#51
 1,2-Dibromoethane
 Concen: 27.321 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

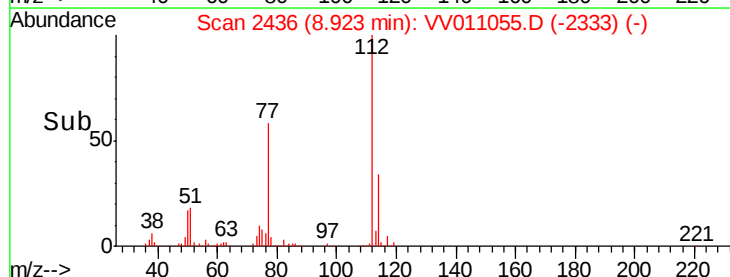
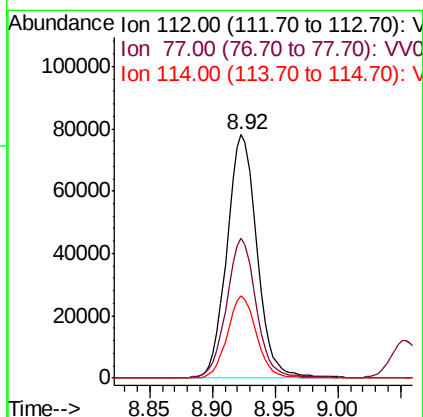
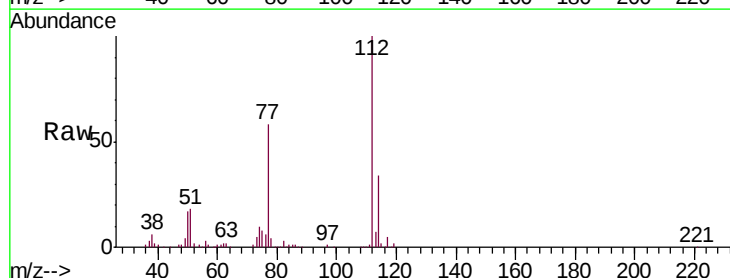
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

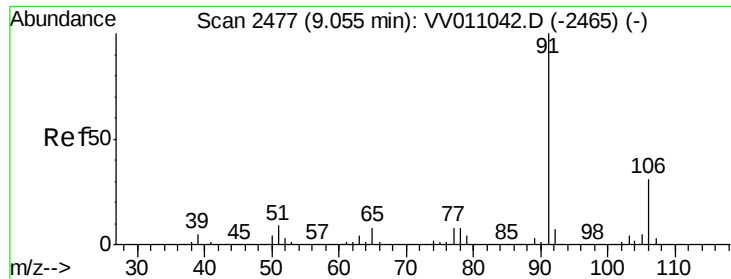
Tgt Ion:107 Resp: 40146
 Ion Ratio Lower Upper
 107 100
 109 95.2 68.0 126.4
 188 3.3 2.3 3.5



#52
 Chlorobenzene
 Concen: 25.278 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion:112 Resp: 130461
 Ion Ratio Lower Upper
 112 100
 77 57.6 43.0 64.4
 114 34.0 22.0 40.8





#53

Ethylbenzene

Concen: 25.796 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

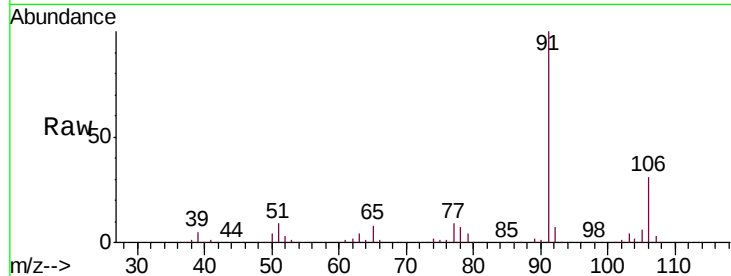
VSTD02573

Tgt Ion: 91 Resp: 211642

Ion Ratio Lower Upper

91 100

106 31.4 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VV011042.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV011042.D (-2465) (-)

150000

100000

50000

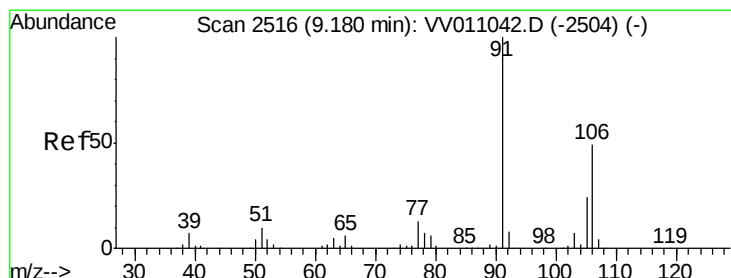
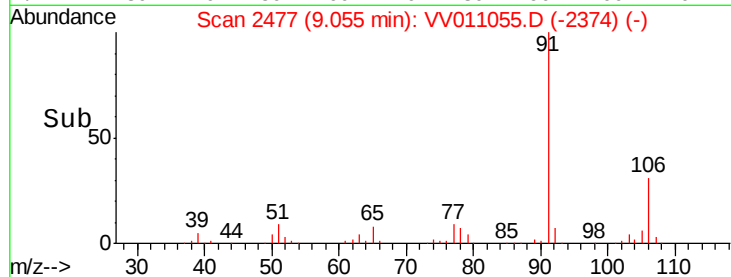
0

9.05

9.10

9.15

Time-->



#54

m,p-Xylene

Concen: 25.484 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011055.D

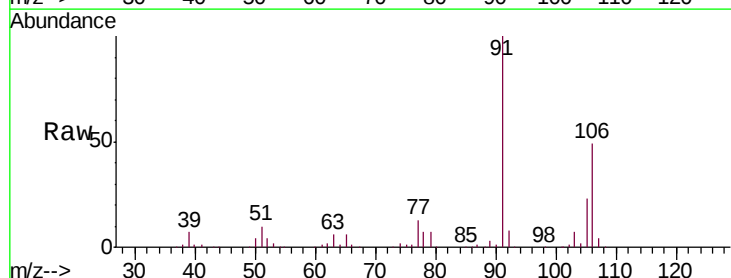
Acq: 24 May 2019 06:26

Tgt Ion: 106 Resp: 81490

Ion Ratio Lower Upper

106 100

91 204.8 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): VV011042.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV011042.D (-2504) (-)

120000

100000

80000

60000

40000

20000

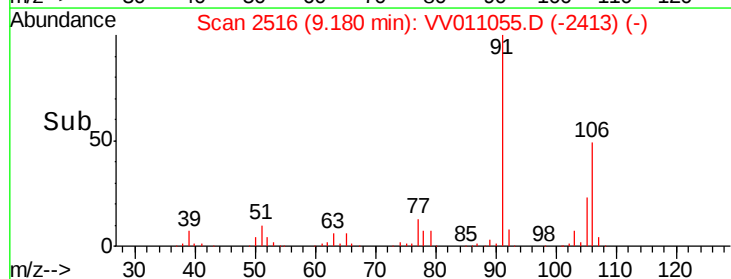
0

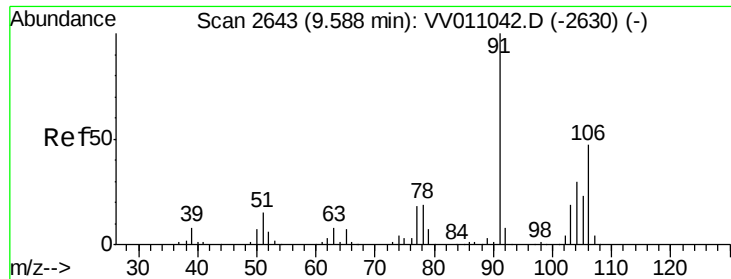
9.18

9.20

9.25

Time-->





#55

o-xylene

Concen: 27.156 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

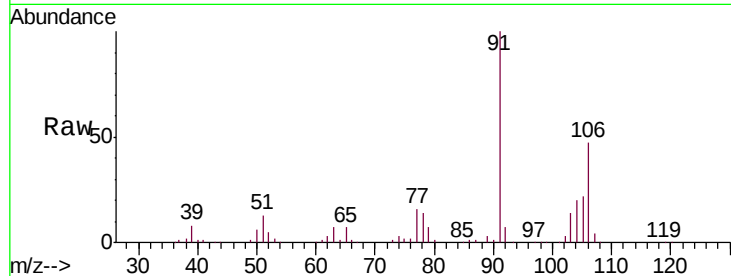
Instrument :
MSVOA_V
ClientSampled :
VSTD02573

Tgt Ion:106 Resp: 82848

Ion Ratio Lower Upper

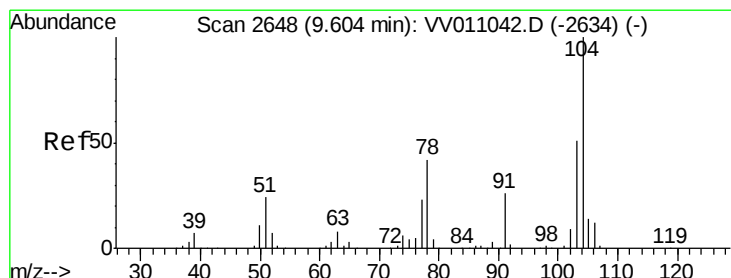
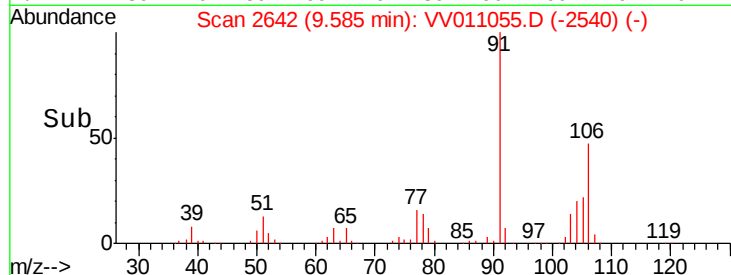
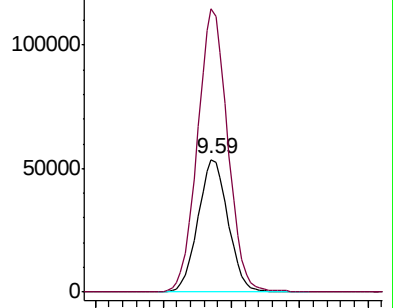
106 100

91 213.7 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 28.006 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV011055.D

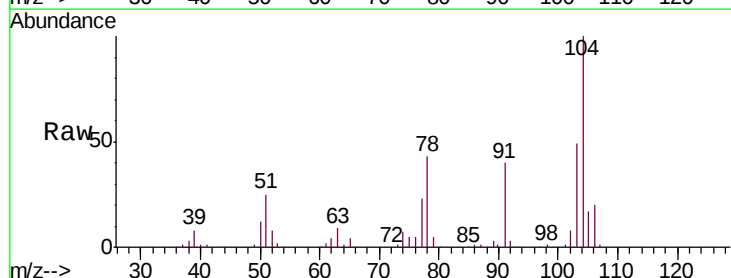
Acq: 24 May 2019 06:26

Tgt Ion:104 Resp: 147253

Ion Ratio Lower Upper

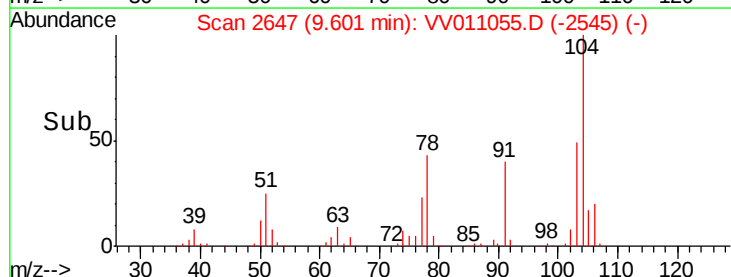
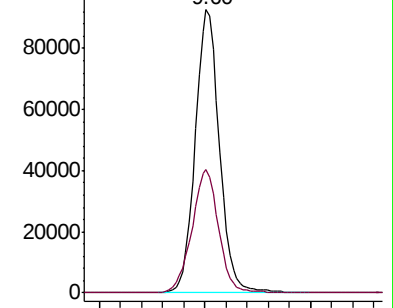
104 100

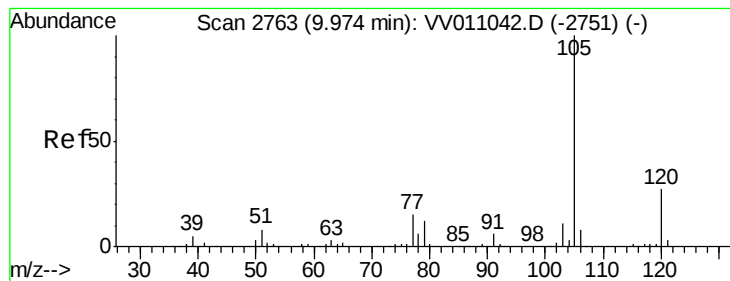
78 43.5 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.565 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

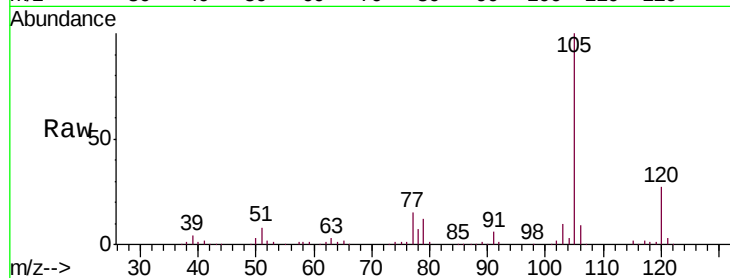
Tgt Ion: 105 Resp: 205752

Ion Ratio Lower Upper

105 100

120 27.1 21.9 32.9

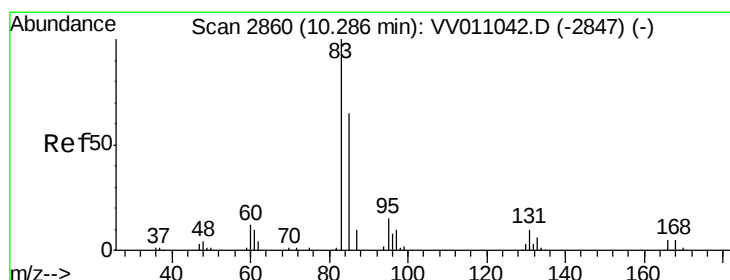
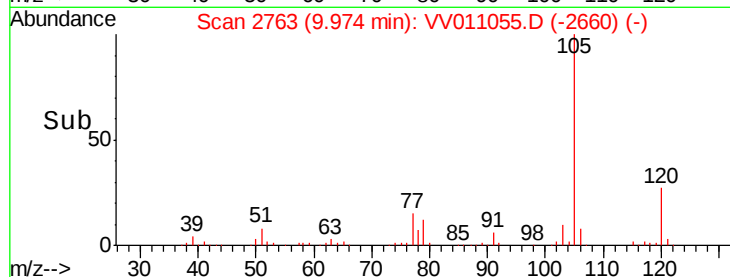
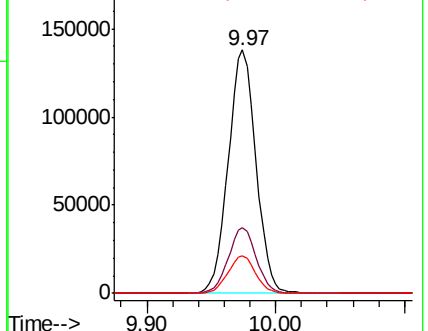
77 15.4 12.2 18.2



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: 27.691 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

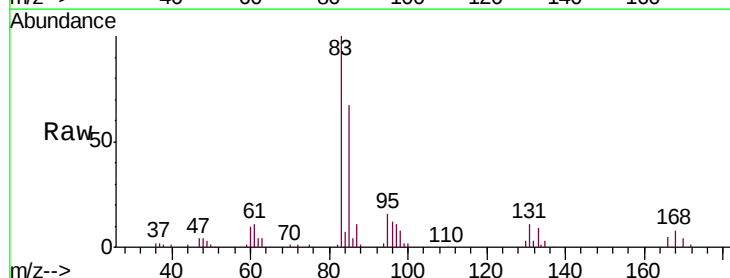
Tgt Ion: 83 Resp: 55402

Ion Ratio Lower Upper

83 100

85 67.0 44.4 82.5

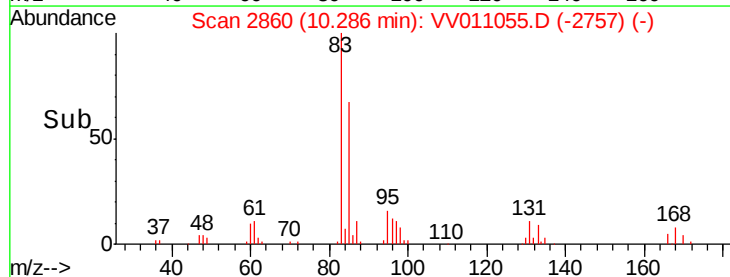
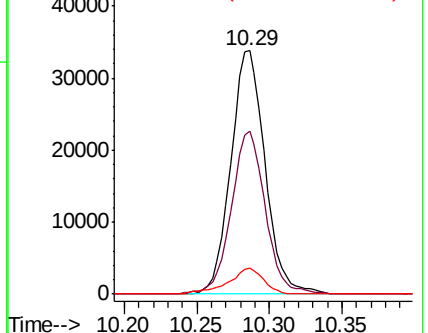
131 10.7 8.2 12.4

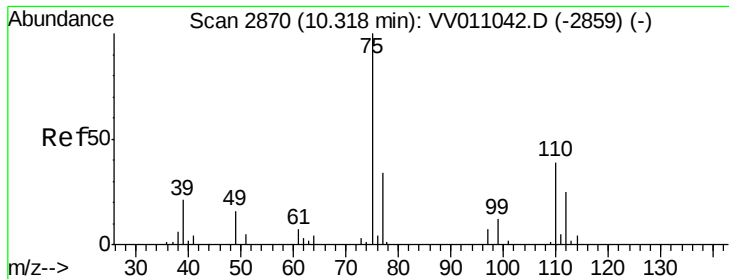


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.107 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

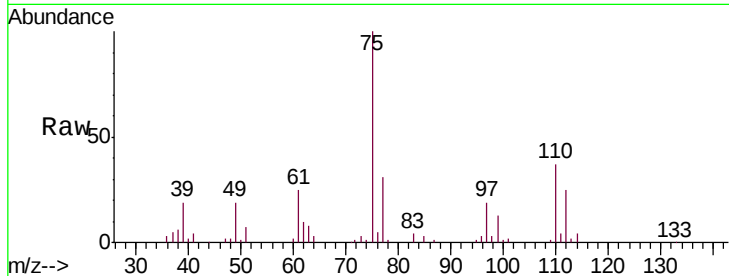
VSTD02573

Tgt Ion: 75 Resp: 41309

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.2

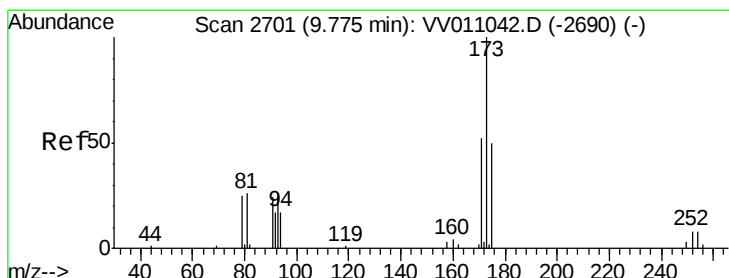
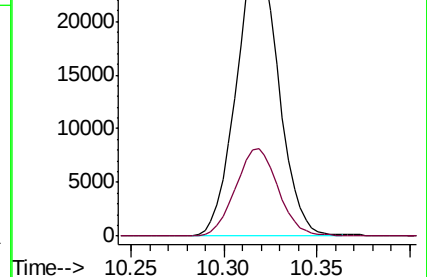
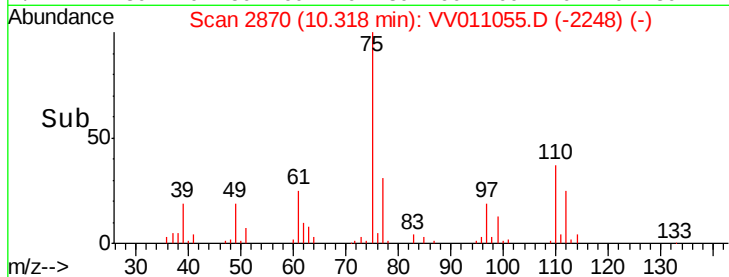


Abundance Ion 75.00 (74.70 to 75.70): VV011042.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV011042.D (-2859) (-)

10.32

Time-->



#62

Bromoform

Concen: 26.060 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

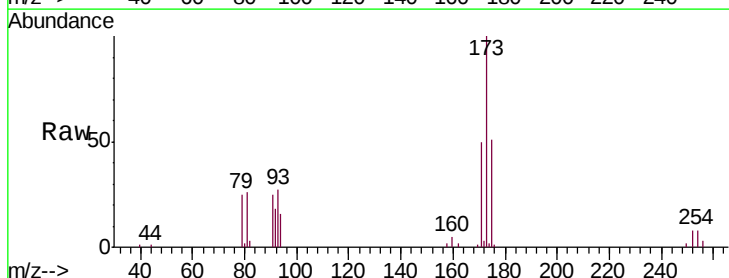
Tgt Ion: 173 Resp: 24873

Ion Ratio Lower Upper

173 100

175 50.2 40.3 60.5

254 7.4 6.1 9.1



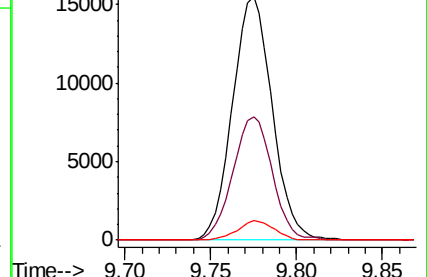
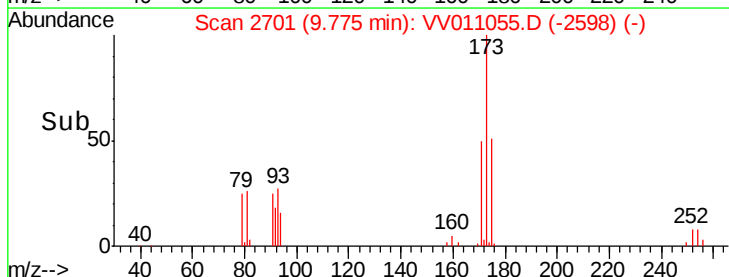
Abundance Ion 173.00 (172.70 to 173.70): VV011042.D (-2690) (-)

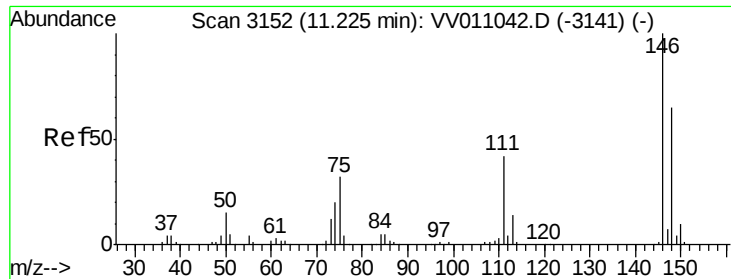
Ion 175.00 (174.70 to 175.70): VV011042.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV011042.D (-2690) (-)

9.77

Time-->

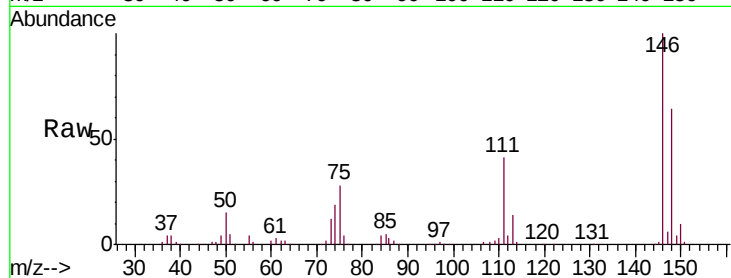




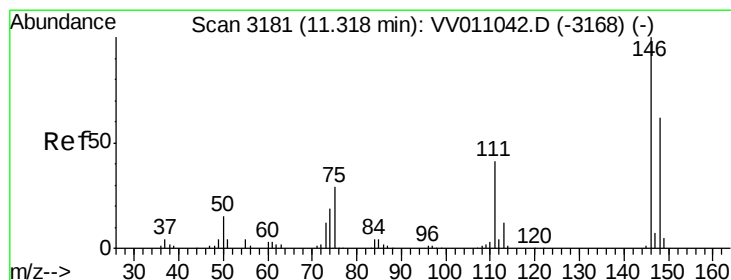
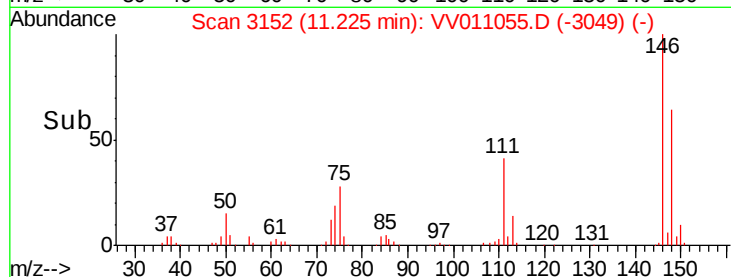
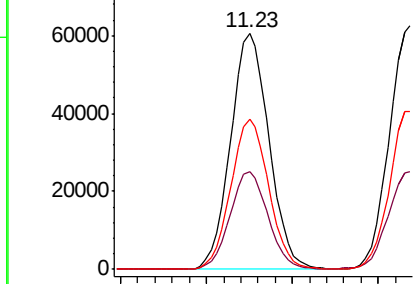
#63
 1,3-Dichlorobenzene
 Concen: 25.640 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tgt Ion:146 Resp: 94029
 Ion Ratio Lower Upper
 146 100
 111 41.5 28.4 52.8
 148 63.6 44.8 83.2

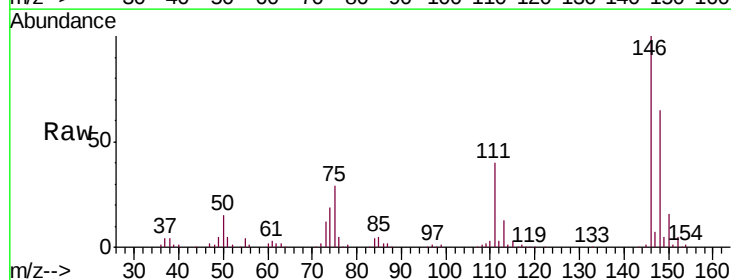


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

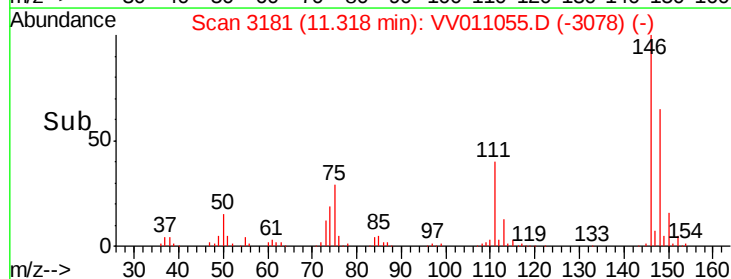
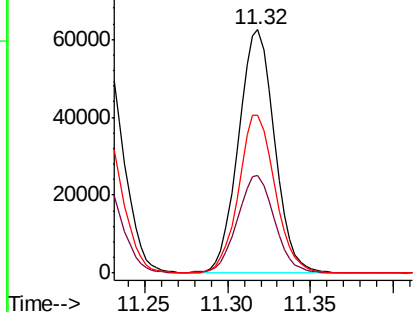


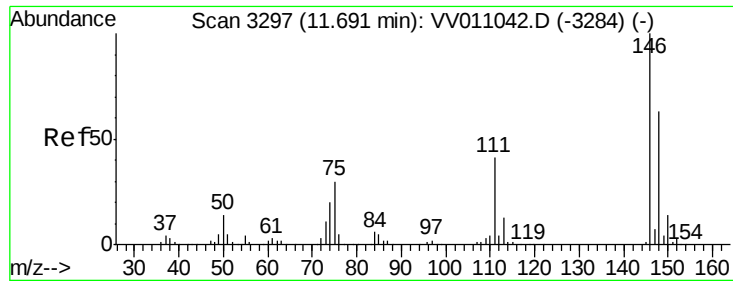
#64
 1,4-Dichlorobenzene
 Concen: 25.230 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion:146 Resp: 95288
 Ion Ratio Lower Upper
 146 100
 111 40.1 26.5 49.1
 148 64.9 45.0 83.6



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: 26.823 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

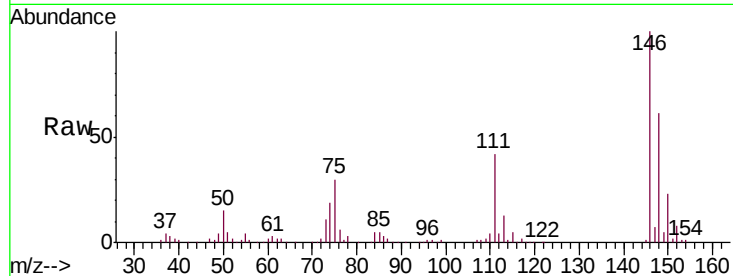
Tgt Ion:146 Resp: 95377

Ion Ratio Lower Upper

146 100

111 42.4 32.8 49.2

148 60.8 51.9 77.9

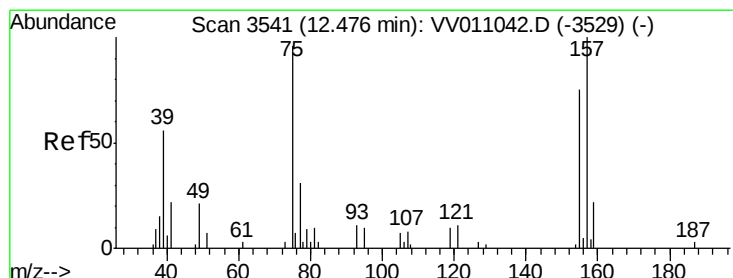
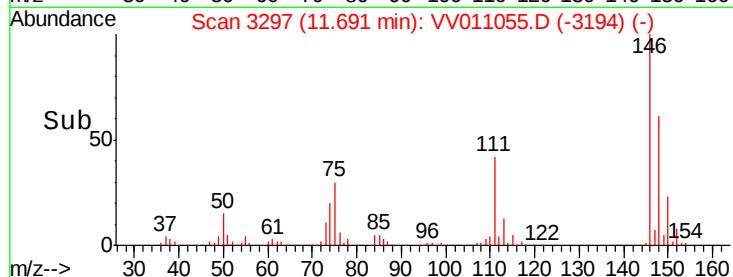
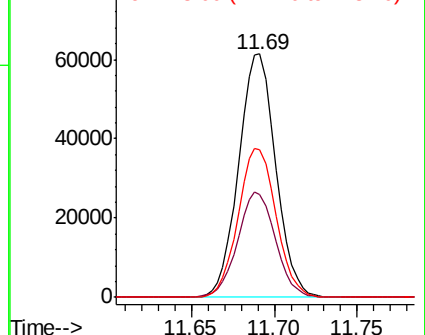


Abundance

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: 29.850 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

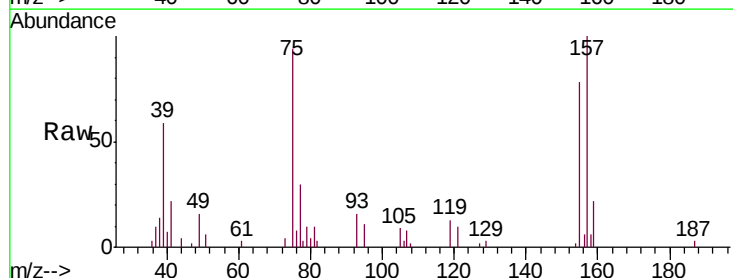
Tgt Ion: 75 Resp: 8432

Ion Ratio Lower Upper

75 100

157 106.2 87.0 130.4

155 82.8 67.8 101.8

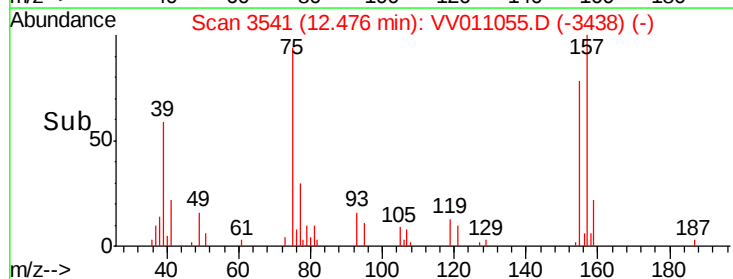
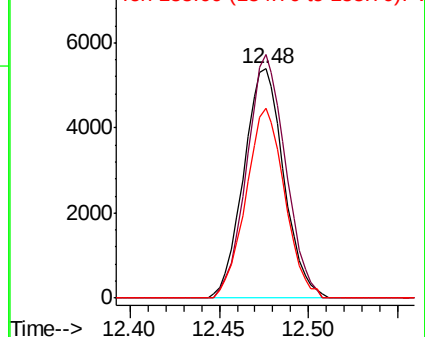


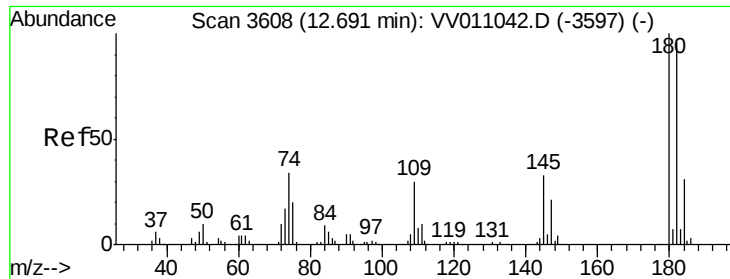
Abundance

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

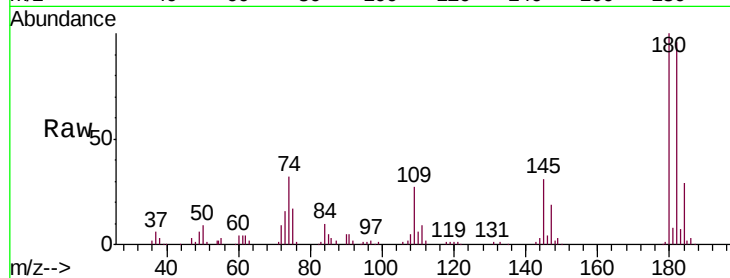




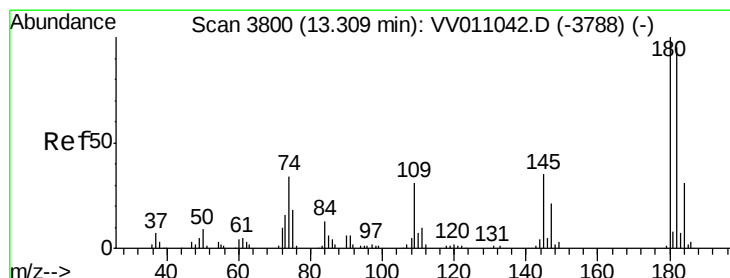
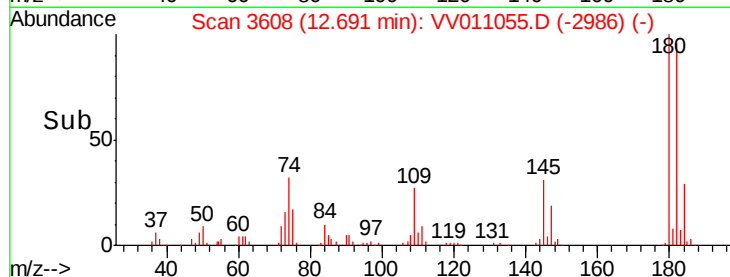
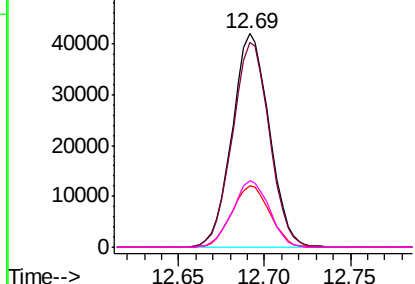
#67
 1,3,5-Trichlorobenzene
 Concen: 23.431 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tgt Ion:180 Resp: 63032
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.2
 184 29.6 24.6 37.0
 145 31.1 24.1 36.1

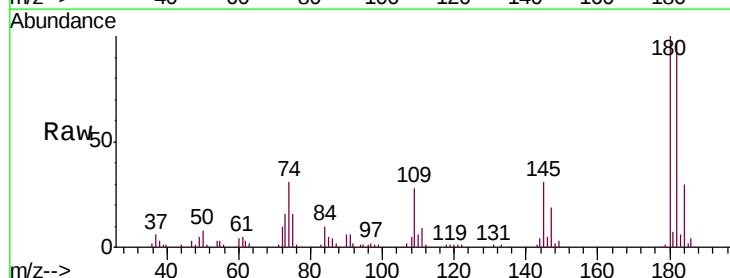


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

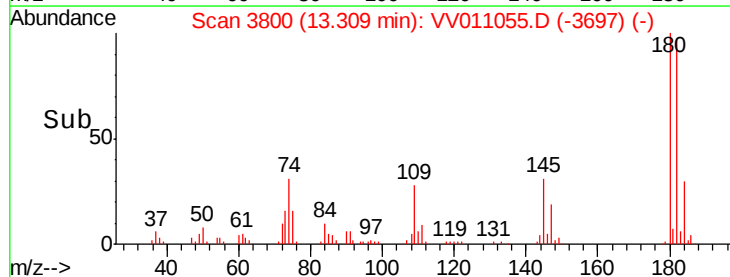
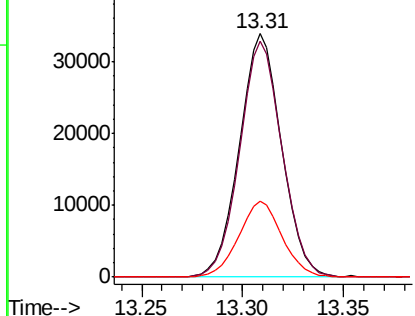


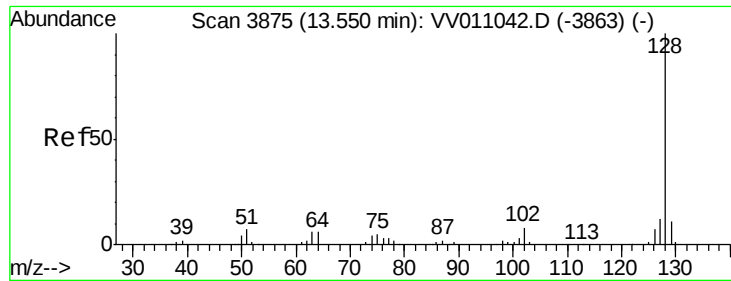
#68
 1,2,4-trichlorobenzene
 Concen: 23.349 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011055.D
 Acq: 24 May 2019 06:26

Tgt Ion:180 Resp: 49645
 Ion Ratio Lower Upper
 180 100
 182 97.3 75.4 113.2
 145 32.0 25.1 37.7



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





#69

Naphthalene

Concen: 26.459 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

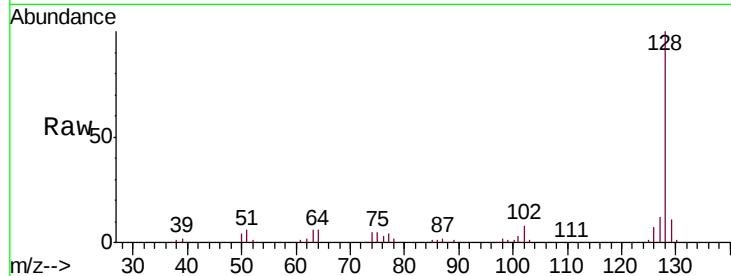
Tgt Ion:128 Resp: 112777

Ion Ratio Lower Upper

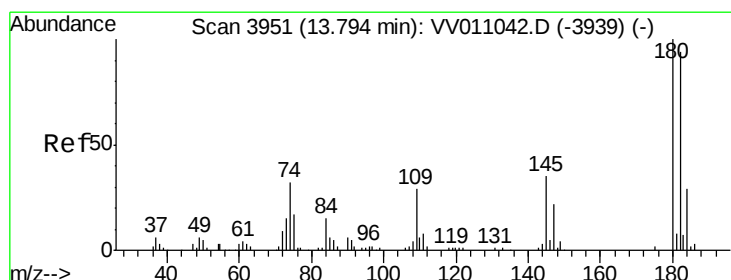
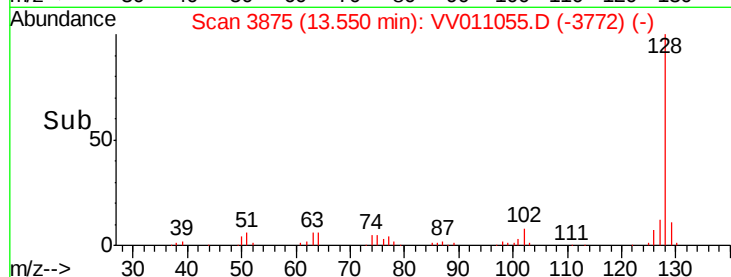
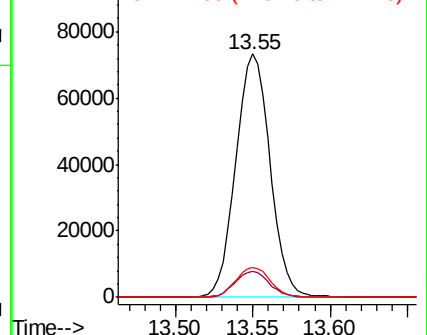
128 100

129 10.8 8.6 12.8

127 12.6 10.3 15.5



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: 24.349 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011055.D

Acq: 24 May 2019 06:26

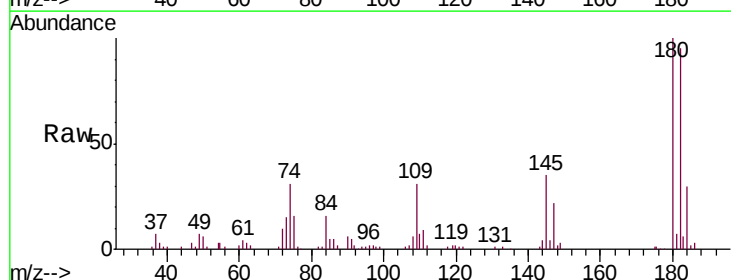
Tgt Ion:180 Resp: 50543

Ion Ratio Lower Upper

180 100

182 92.8 75.7 113.5

145 34.7 26.9 40.3



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

