

Data File : VV011005.D
Acq On : 21 May 2019 17:11
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Quant Time: May 22 05:29:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 05:24:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	136813	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	138243	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	69563	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	37948	24.33	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.32%
7) Chloroethane-d5	1.57	69	26600	25.19	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.76%
10) 1,1-Dichloroethene-d2	2.13	63	73176	24.40	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.60%
20) 2-Butanone-d5	3.94	46	23523	43.71	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.42%
24) Chloroform-d	4.40	84	80454	22.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.08	65	51469	24.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.60%
29) Benzene-d6	5.10	84	192669	25.53	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.12%
33) 1,2-Dichloropropane-d6	6.12	67	59813	24.94	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.76%
37) Toluene-d8	7.36	98	187567	26.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.92%
38) trans-1,3-Dichloropropene-	7.66	79	24594	24.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.92%
39) 2-Hexanone-d5	8.13	63	21301	47.62	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.24%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	56669	23.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.68%
61) 1,2-Dichlorobenzene-d4	11.67	152	69994	24.78	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.12%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	49438	24.476	ug/L	99
3) Chloromethane	1.25	50	43854	23.969	ug/L	98
5) Vinyl chloride	1.32	62	45469	24.745	ug/L	100
6) Bromomethane	1.51	94	17924	27.975	ug/L	98
8) Chloroethane	1.59	64	22116	24.053	ug/L	92
9) Trichlorofluoromethane	1.76	101	72697	24.822	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	42077	25.195	ug/L	97
12) 1,1-Dichloroethene	2.14	96	34701	24.035	ug/L	96
13) Acetone	2.19	43	21788	41.981	ug/L	96
14) Carbon disulfide	2.31	76	94931	23.480	ug/L	99
15) Methyl Acetate	2.46	43	20271	20.328	ug/L	98
16) Methylene chloride	2.53	84	52851	22.510	ug/L	95
17) Methyl tert-butyl Ether	2.81	73	120732	23.634	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	49166	24.686	ug/L	98
19) 1,1-Dichloroethane	3.23	63	90720	25.016	ug/L	98
21) 2-Butanone	4.02	43	32582	45.875	ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	54316	24.493	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	26181	24.912	ug/L	95
25) Chloroform	4.42	83	110489	26.925	ug/L	99
27) 1,2-Dichloroethane	5.18	62	61324	24.310	ug/L	97
30) Cyclohexane	4.72	56	70294	24.471	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	80810	25.986	ug/L	99
32) Carbon tetrachloride	4.87	117	70654	24.914	ug/L	98
34) Benzene	5.14	78	207136	25.992	ug/L	100
35) Trichloroethene	5.96	95	54196	24.614	ug/L	97
36) Methylcyclohexane	6.17	83	81620	25.074	ug/L	98
40) 1,2-Dichloropropane	6.22	63	51863	24.763	ug/L	99
41) Bromodichloromethane	6.55	83	68822	24.585	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	78090	25.050	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	67522	44.975	ug/L	100
44) Toluene	7.43	91	230863	26.105	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	65427	24.915	ug/L	97
46) 1,1,2-Trichloroethane	7.88	97	45387	25.432	ug/L	97
47) Tetrachloroethene	8.02	164	42498	24.726	ug/L	98
49) 2-Hexanone	8.18	43	49063	44.759	ug/L	97
50) Dibromochloromethane	8.29	129	50823	24.195	ug/L	98
51) 1,2-Dibromoethane	8.40	107	42387	24.560	ug/L #	95
52) Chlorobenzene	8.92	112	153157	25.266	ug/L	96
53) Ethylbenzene	9.05	91	249805	25.923	ug/L	100
54) m,p-Xylene	9.18	106	98567	26.244	ug/L	98
55) o-xylene	9.59	106	97713	27.270	ug/L	99
56) Styrene	9.60	104	169118	27.385	ug/L	100
57) Isopropylbenzene	9.97	105	253177	26.783	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	57077	24.289	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	39792	23.052	ug/L	99
62) Bromoform	9.77	173	27586	22.339	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	116429	24.539	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	122183	25.005	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	116832	25.396	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	8113	22.199	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	86198	24.766	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	68030	24.730	ug/L	98
69) Naphthalene	13.55	128	132976	24.114	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	66588	24.794	ug/L	100

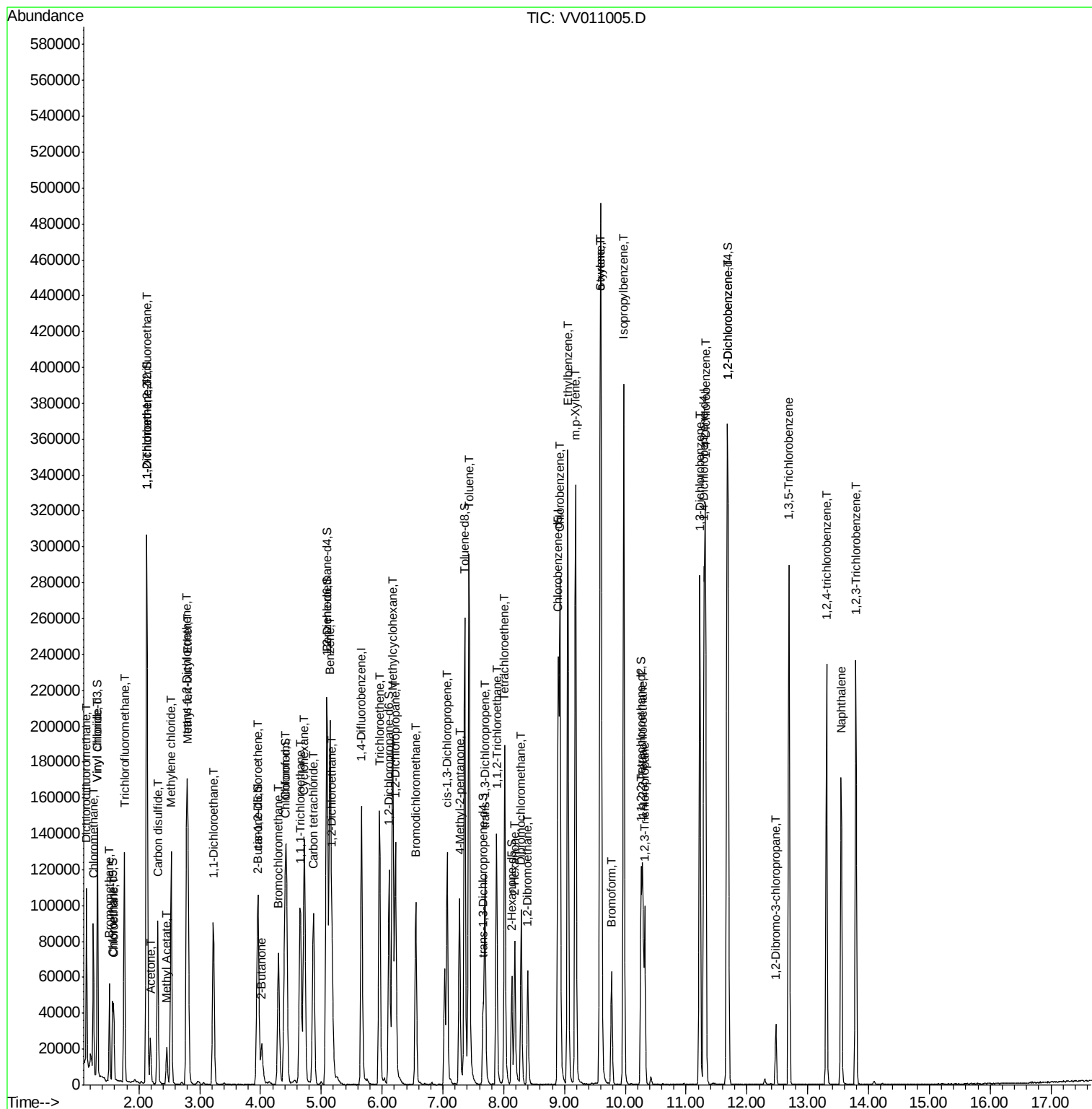
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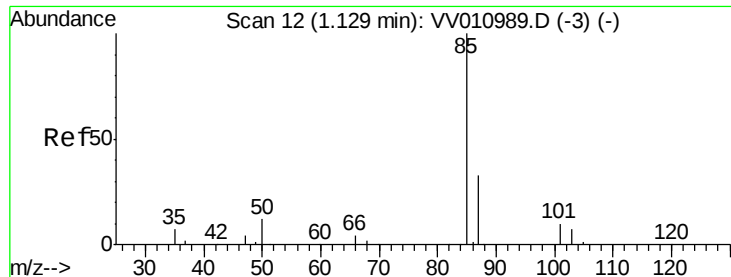
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#2

Dichlorodifluoromethane

Concen: 24.476 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

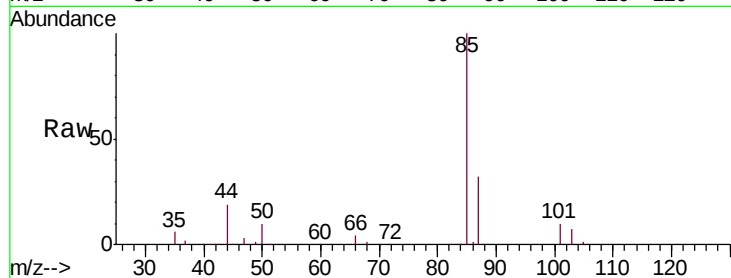
VSTD02568

Tgt Ion: 85 Resp: 49438

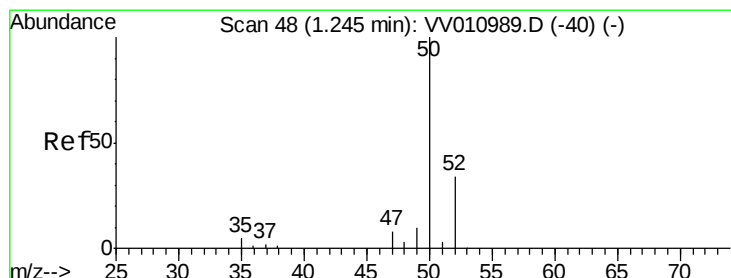
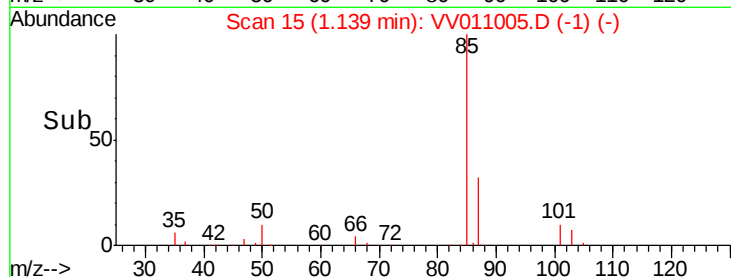
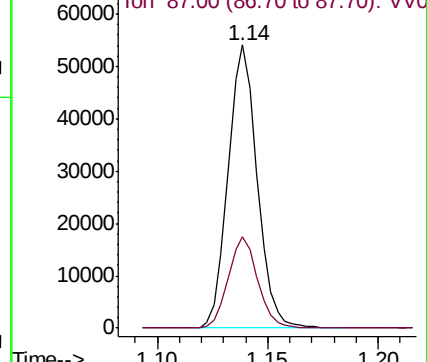
Ion Ratio Lower Upper

85 100

87 32.4 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV011005.D (-1) (-)



#3

Chloromethane

Concen: 23.969 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.01 min

Lab File: VV011005.D

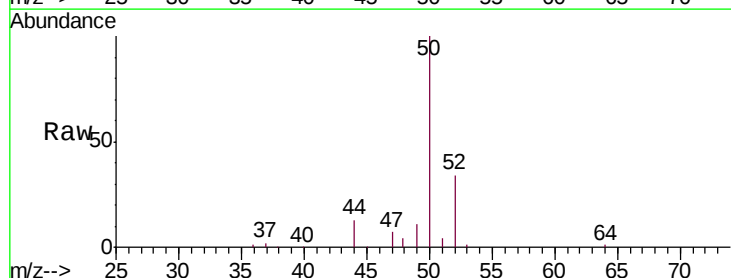
Acq: 21 May 2019 17:11

Tgt Ion: 50 Resp: 43854

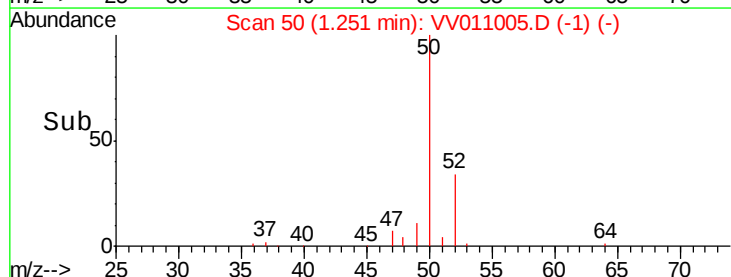
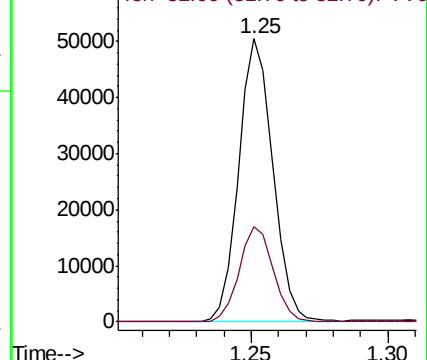
Ion Ratio Lower Upper

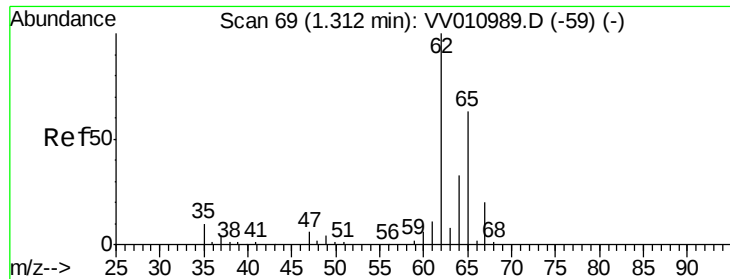
50 100

52 33.8 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV011005.D (-1) (-)





#5

Vinyl chloride

Concen: 24.745 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

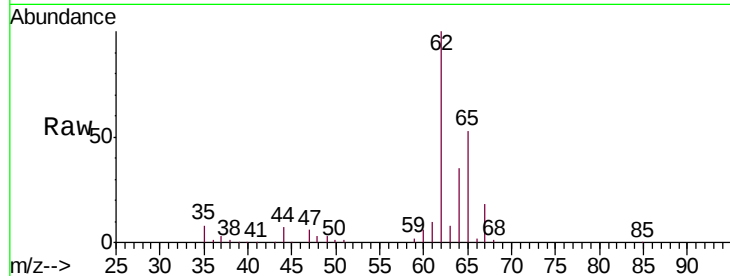
VSTD02568

Tgt Ion: 62 Resp: 45469

Ion Ratio Lower Upper

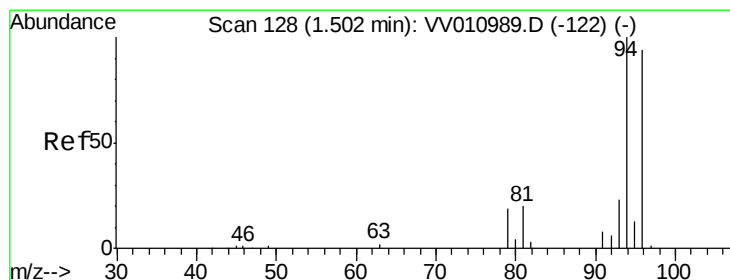
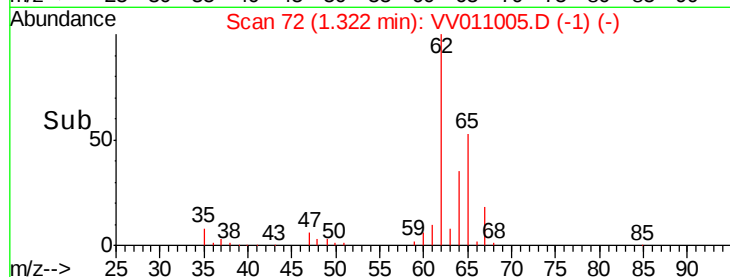
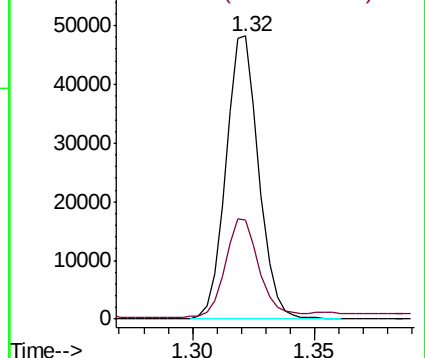
62 100

64 34.8 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: 27.975 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.01 min

Lab File: VV011005.D

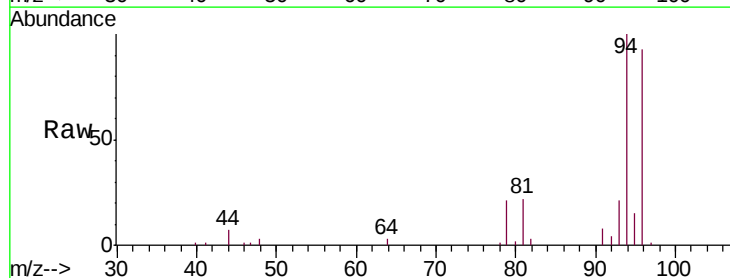
Acq: 21 May 2019 17:11

Tgt Ion: 94 Resp: 17924

Ion Ratio Lower Upper

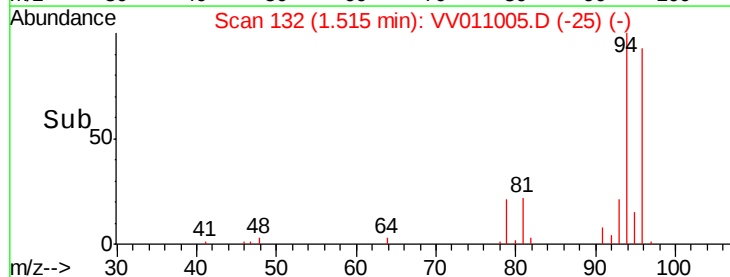
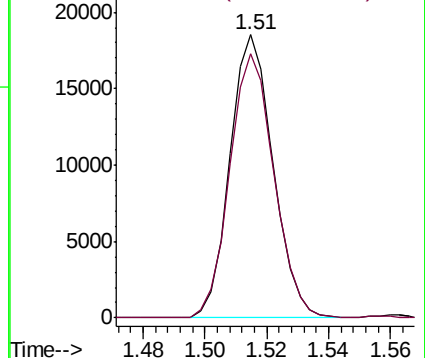
94 100

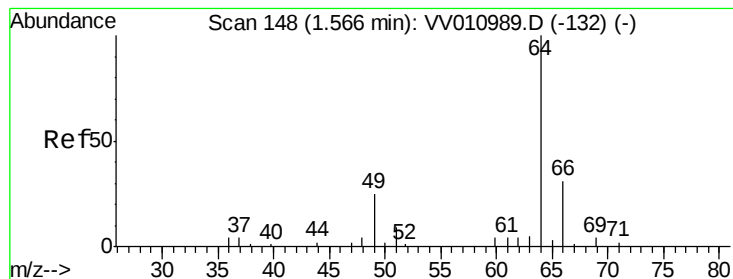
96 95.8 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 24.053 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.02 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

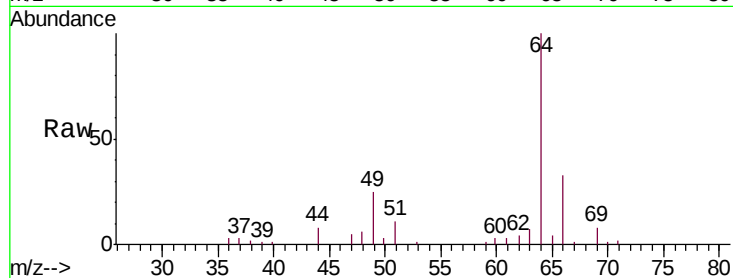
VSTD02568

Tgt Ion: 64 Resp: 22116

Ion Ratio Lower Upper

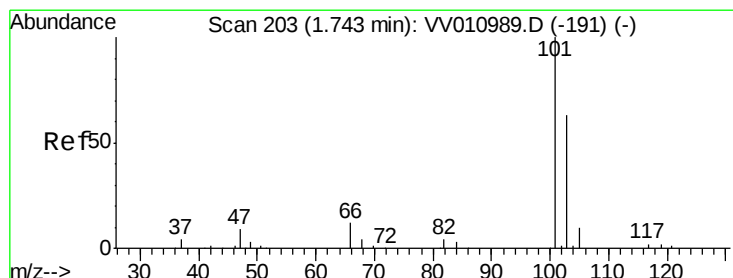
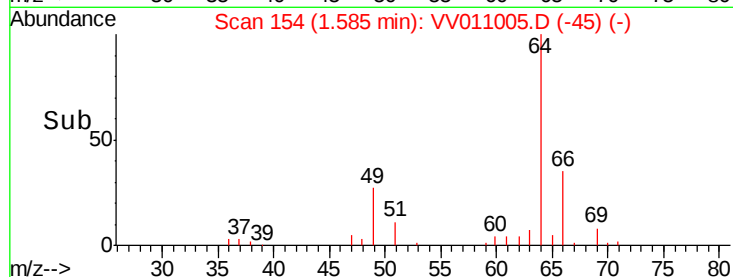
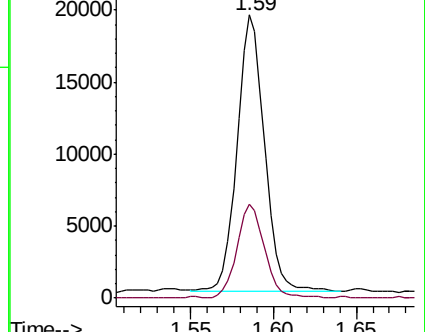
64 100

66 33.2 20.4 37.8



Abundance Ion 64.00 (63.70 to 64.70): VV011005.D (-132) (-)

Ion 66.00 (65.70 to 66.70): VV011005.D (-132) (-)



#9

Trichlorofluoromethane

Concen: 24.822 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.02 min

Lab File: VV011005.D

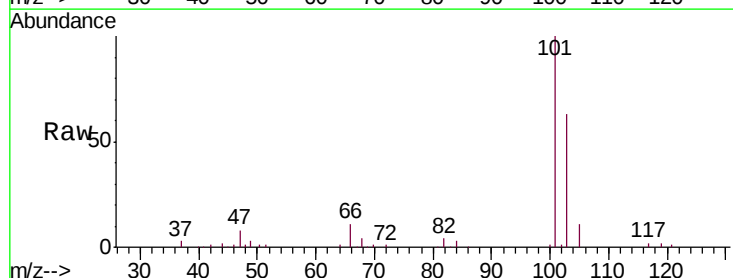
Acq: 21 May 2019 17:11

Tgt Ion: 101 Resp: 72697

Ion Ratio Lower Upper

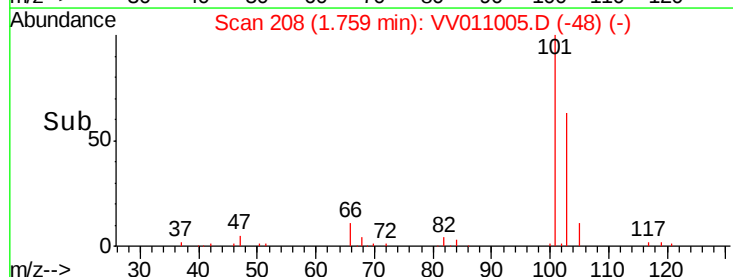
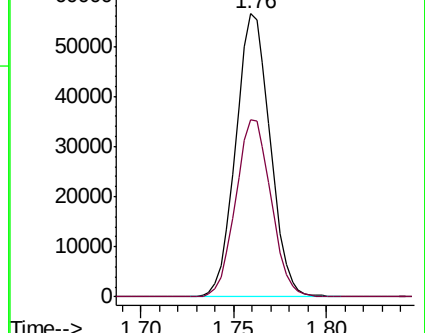
101 100

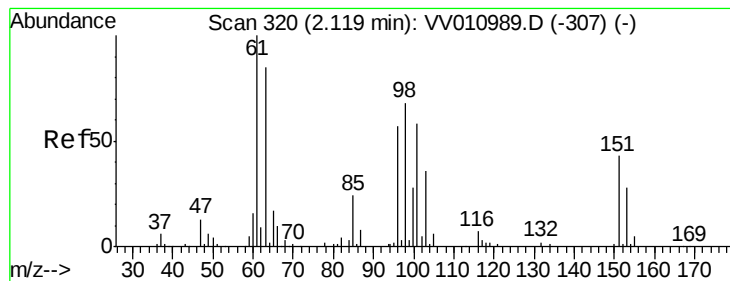
103 64.5 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV011005.D (-191) (-)

Ion 103.00 (102.70 to 103.70): VV011005.D (-191) (-)





#11

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

Concen: 25.195 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV011005.D

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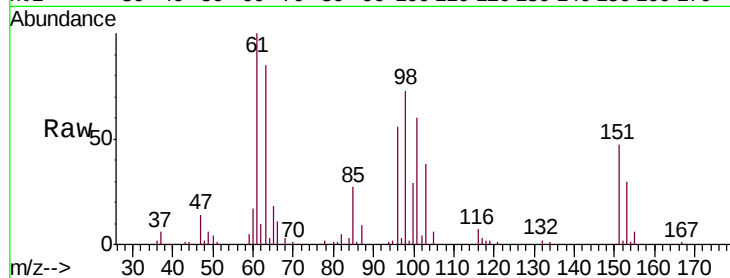
Tgt Ion: 101 Resp: 42077

Ion Ratio Lower Upper

101 100

85 44.1 33.9 50.9

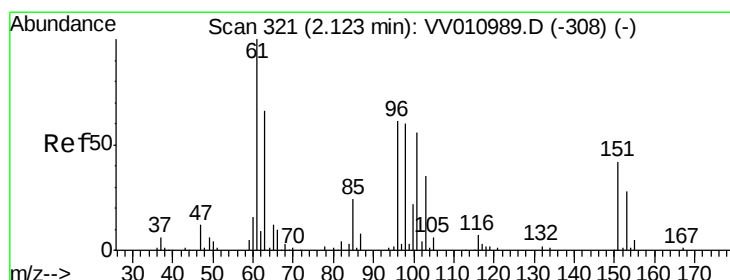
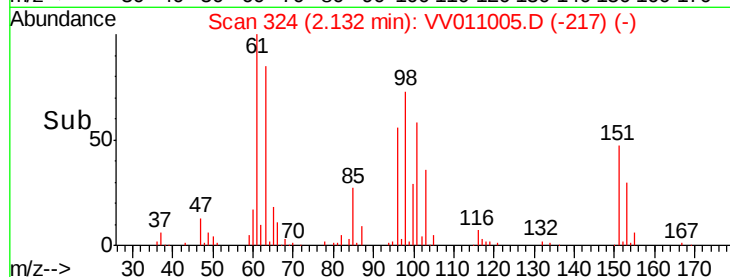
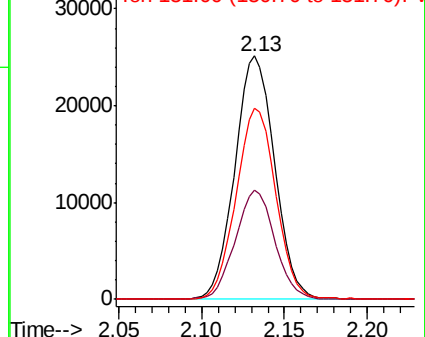
151 78.2 64.7 97.1



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: 24.035 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

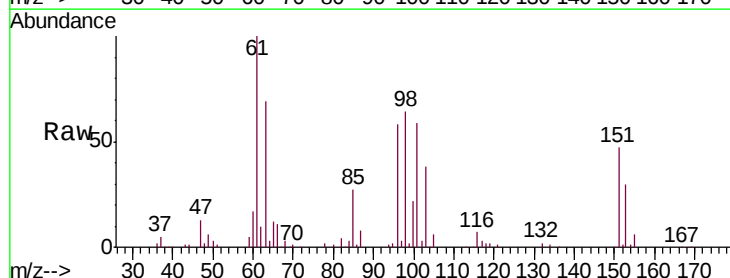
Tgt Ion: 96 Resp: 34701

Ion Ratio Lower Upper

96 100

61 172.4 117.8 218.8

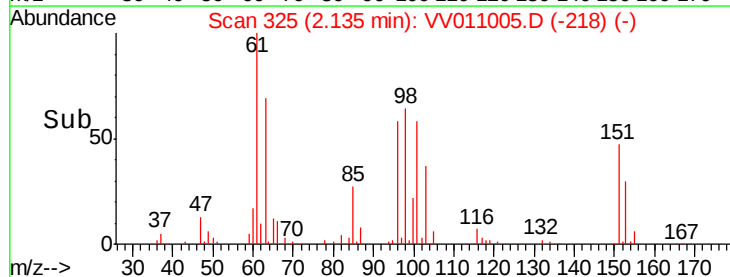
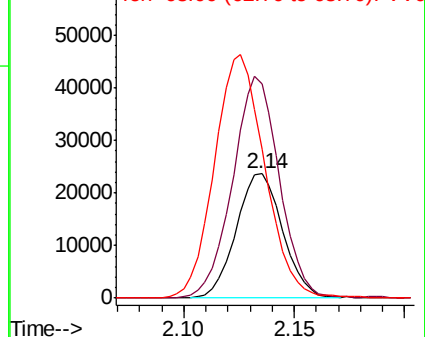
63 119.2 87.1 161.7

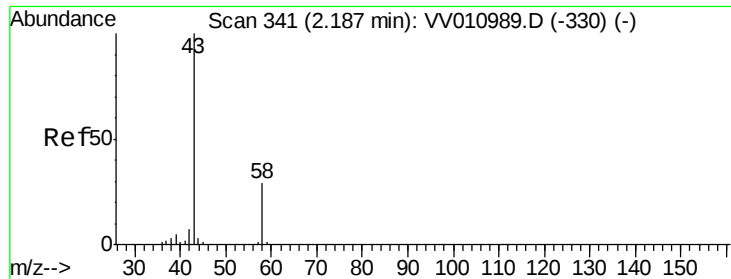


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 41.981 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

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MSVOA_V

ClientSampleId :

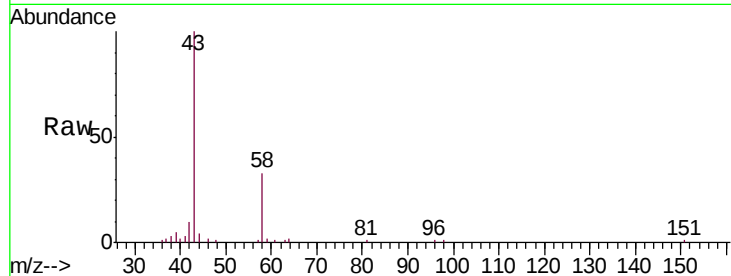
VSTD02568

Tgt Ion: 43 Resp: 21788

Ion Ratio Lower Upper

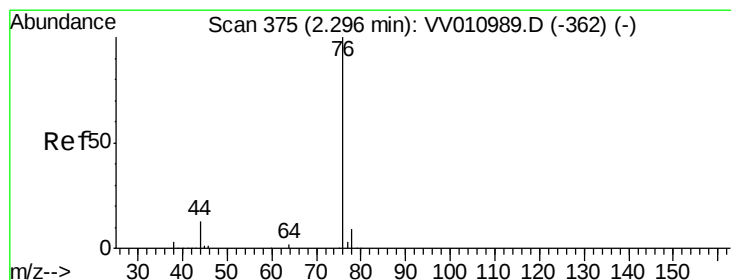
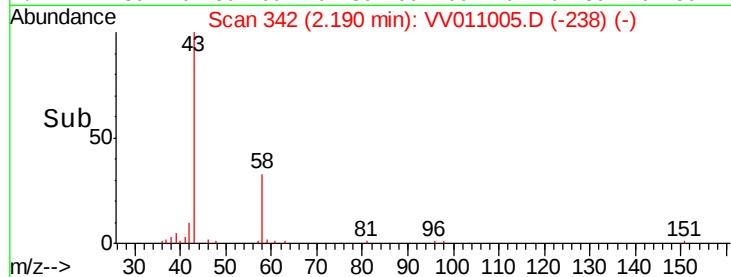
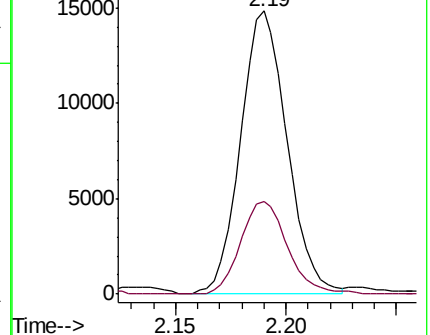
43 100

58 32.7 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV011005.D (-238) (-)

Ion 58.00 (57.70 to 58.70): VV011005.D (-238) (-)



#14

Carbon disulfide

Concen: 23.480 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.01 min

Lab File: VV011005.D

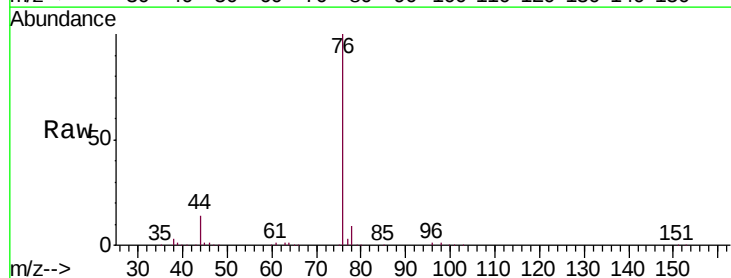
Acq: 21 May 2019 17:11

Tgt Ion: 76 Resp: 94931

Ion Ratio Lower Upper

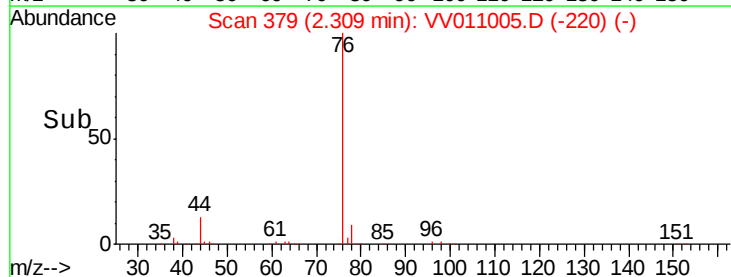
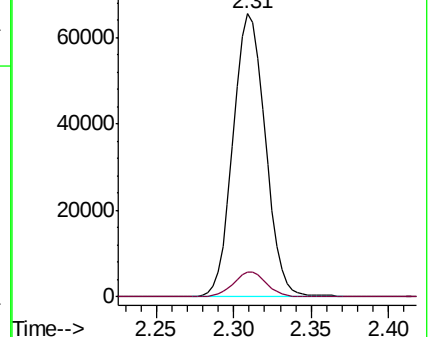
76 100

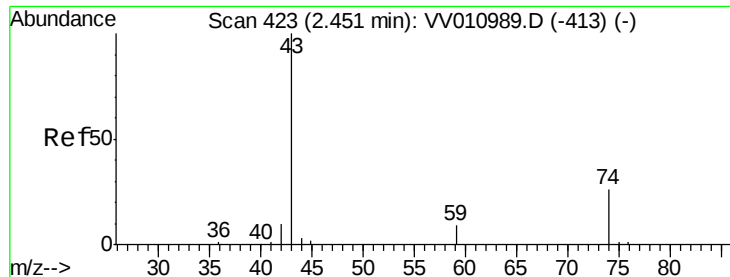
78 8.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV011005.D (-220) (-)

Ion 78.00 (77.70 to 78.70): VV011005.D (-220) (-)

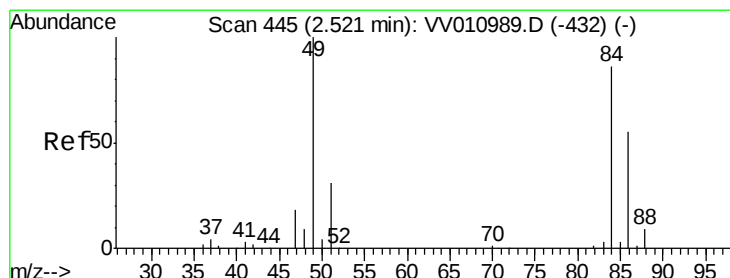
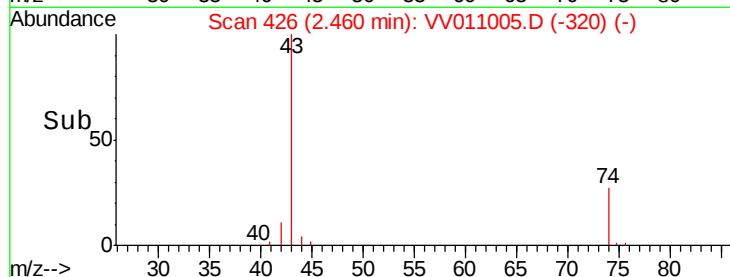
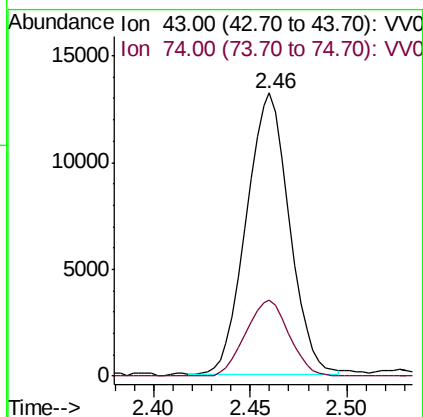
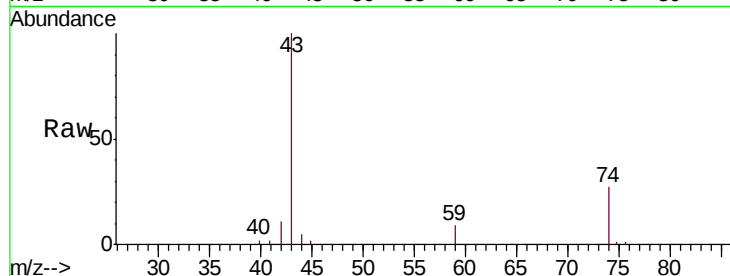




#15
Methyl Acetate
Concen: 20.328 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

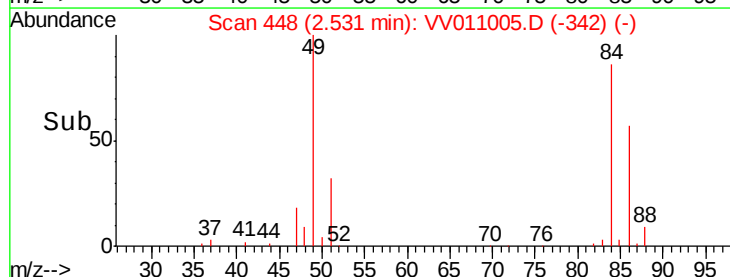
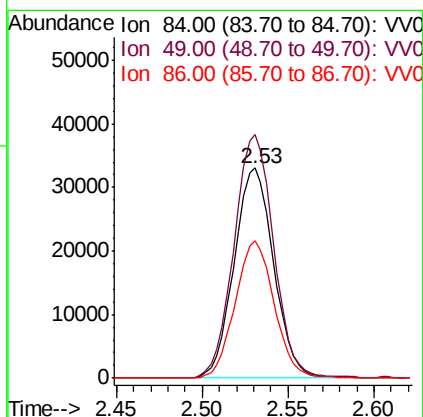
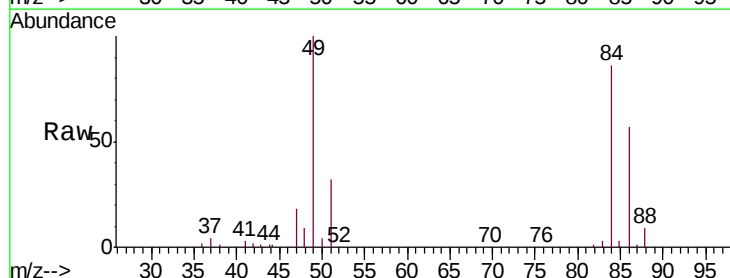
Instrument :
MSVOA_V
ClientSampled :
VSTD02568

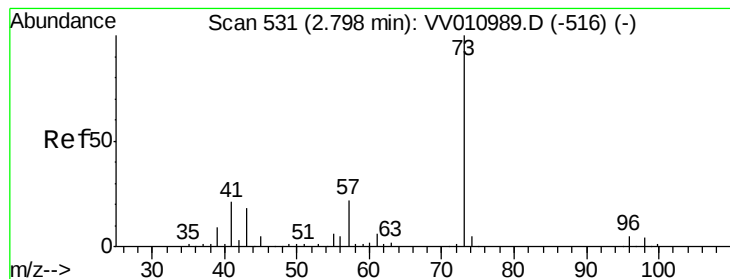
Tgt Ion: 43 Resp: 20271
Ion Ratio Lower Upper
43 100
74 27.2 21.1 31.7



#16
Methylene chloride
Concen: 22.510 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.01 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Tgt Ion: 84 Resp: 52851
Ion Ratio Lower Upper
84 100
49 115.9 77.4 143.8
86 65.6 44.0 81.6



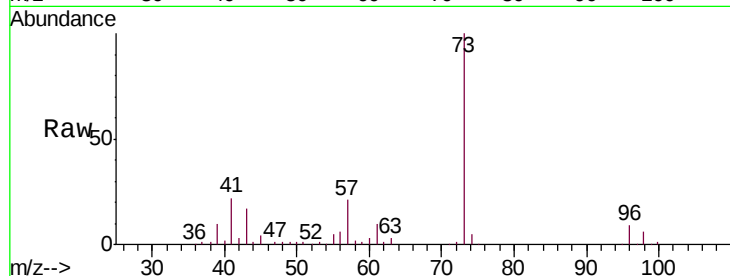


#17

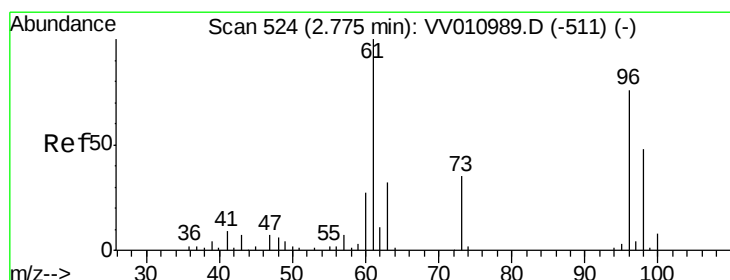
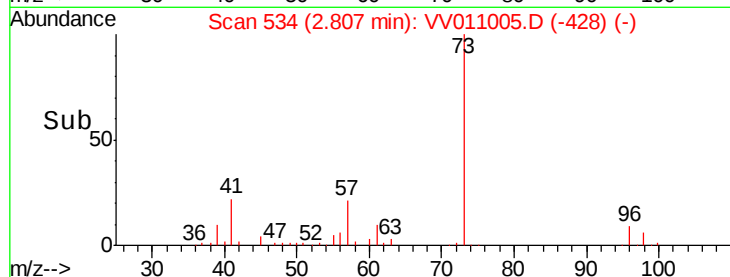
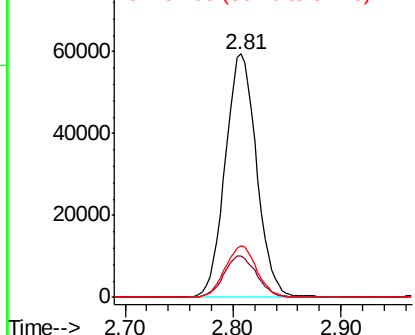
Methyl tert-butyl Ether
 Concen: 23.634 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. 0.01 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 73 Resp: 120732
 Ion Ratio Lower Upper
 73 100
 43 17.7 14.5 21.7
 57 21.3 17.3 25.9



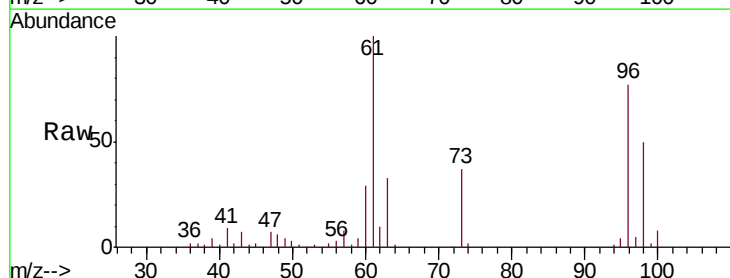
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



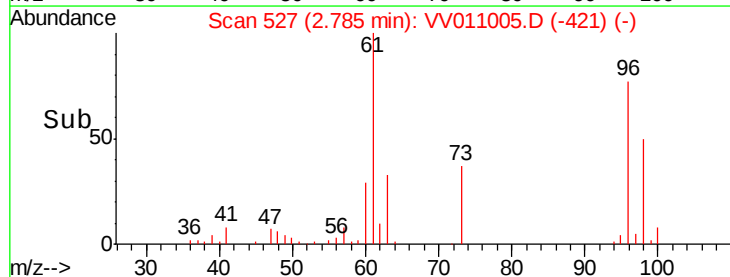
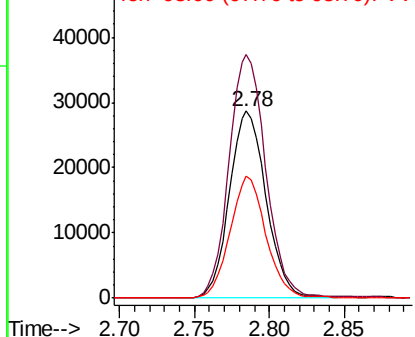
#18

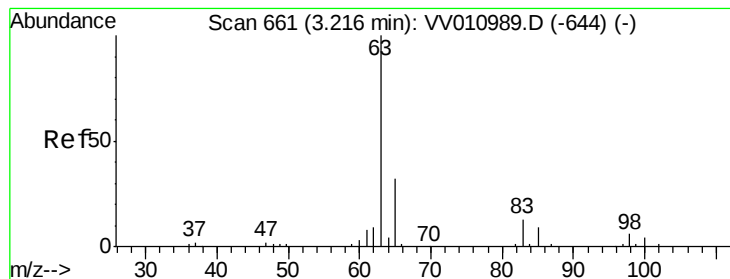
trans-1,2-Dichloroethene
 Concen: 24.686 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.01 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion: 96 Resp: 49166
 Ion Ratio Lower Upper
 96 100
 61 130.3 89.7 166.5
 98 65.2 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: 25.016 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

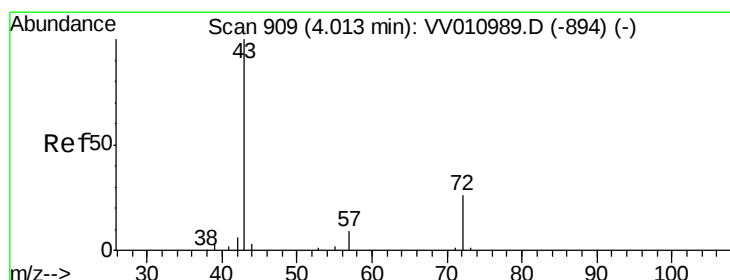
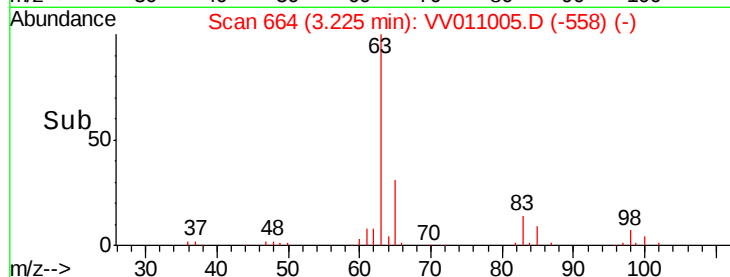
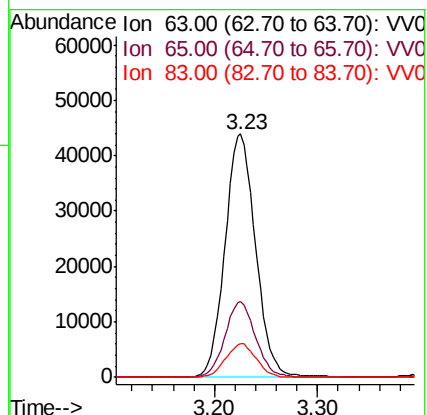
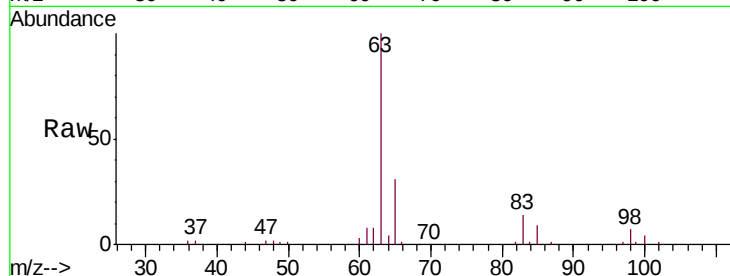
Tgt Ion: 63 Resp: 90720

Ion Ratio Lower Upper

63 100

65 31.0 21.1 39.3

83 13.9 9.1 16.9



#21

2-Butanone

Concen: 45.875 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VV011005.D

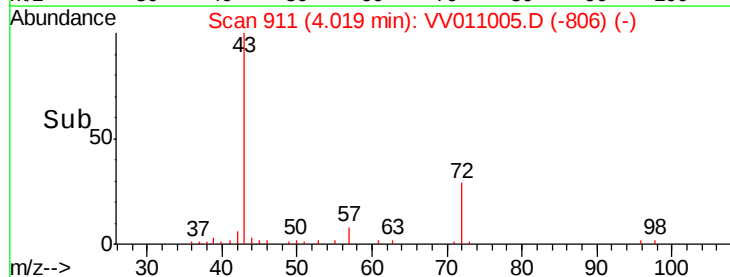
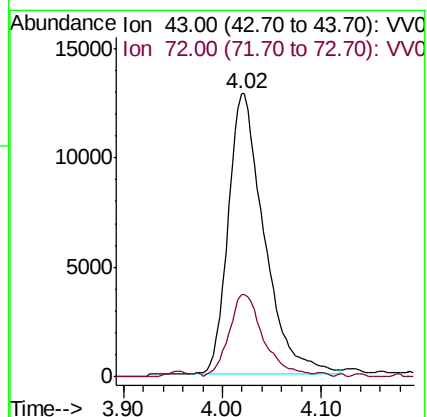
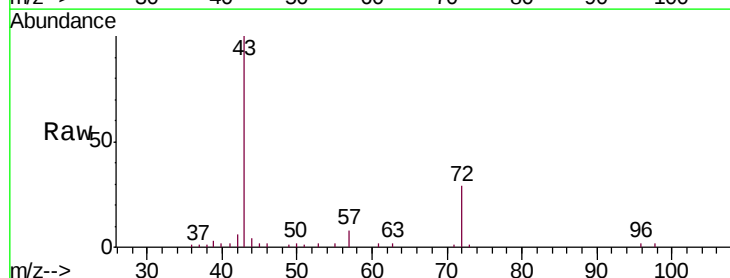
Acq: 21 May 2019 17:11

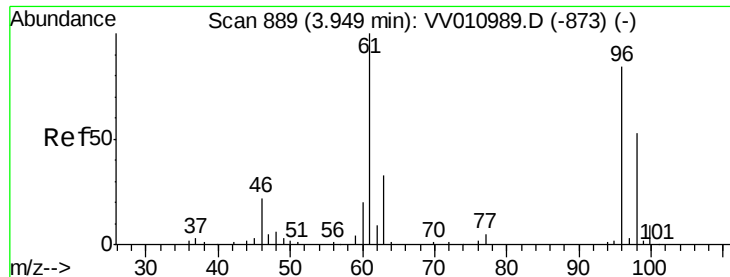
Tgt Ion: 43 Resp: 32582

Ion Ratio Lower Upper

43 100

72 28.5 13.1 39.3



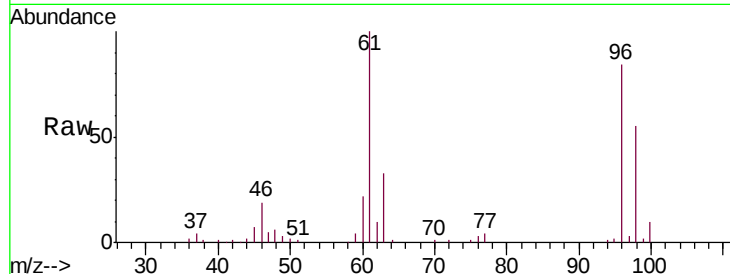


#22

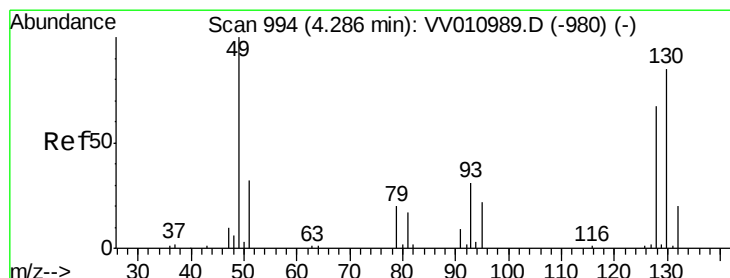
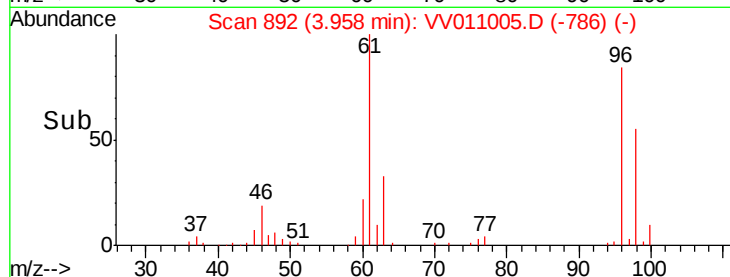
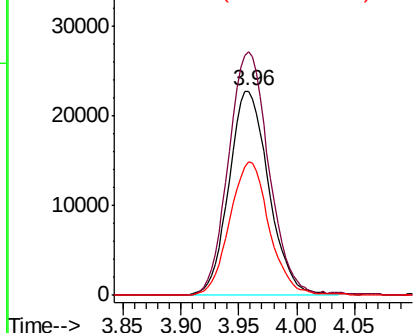
cis-1,2-Dichloroethene
 Concen: 24.493 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 96 Resp: 54316
 Ion Ratio Lower Upper
 96 100
 61 119.2 85.4 158.6
 98 65.3 45.1 83.7



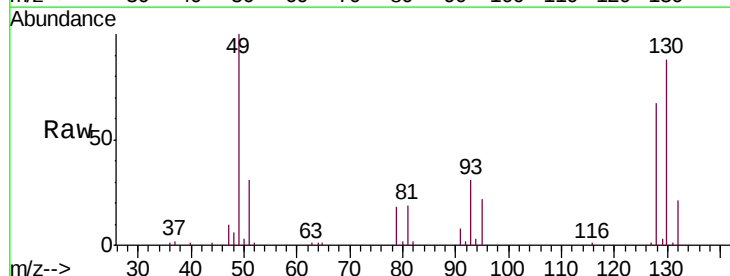
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



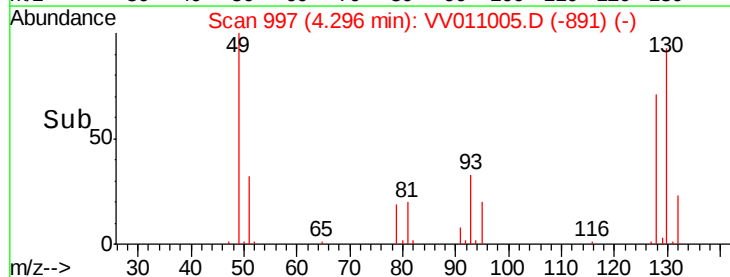
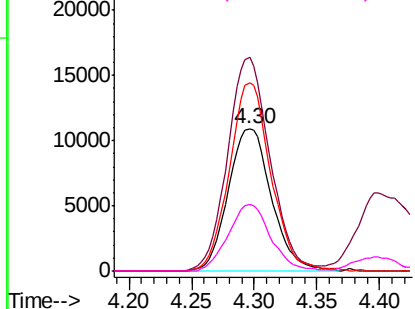
#23

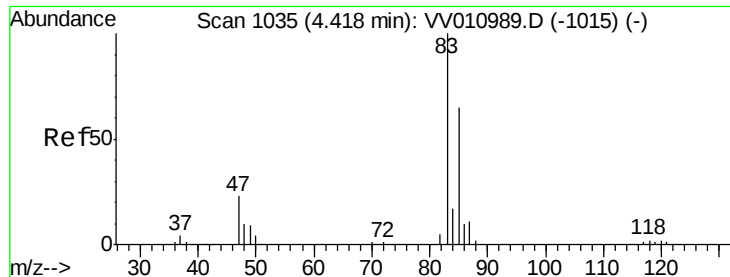
Bromochloromethane
 Concen: 24.912 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.01 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion: 128 Resp: 26181
 Ion Ratio Lower Upper
 128 100
 49 149.8 111.6 207.4
 130 132.1 95.5 177.3
 51 46.8 39.8 59.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

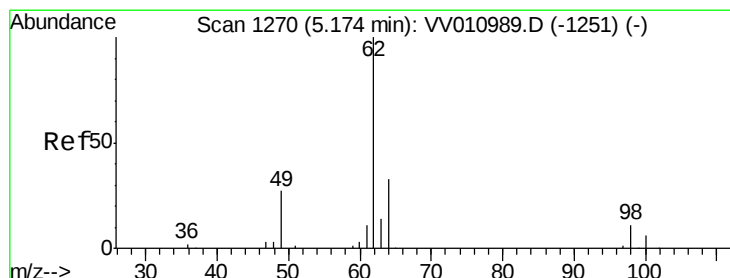
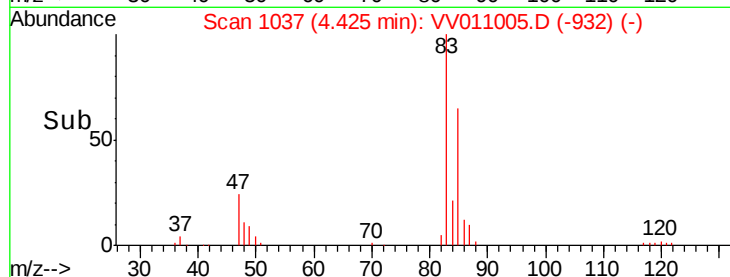
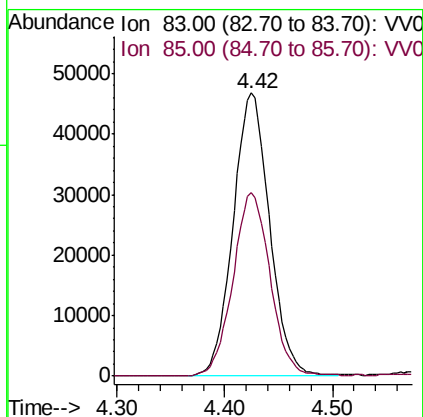
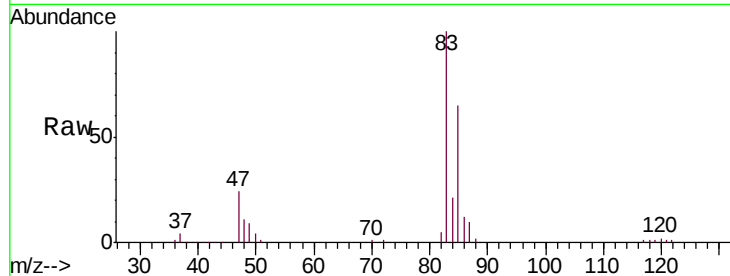




#25
Chloroform
Concen: 26.925 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.01 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

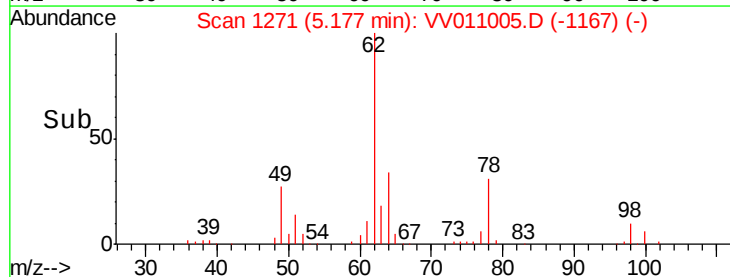
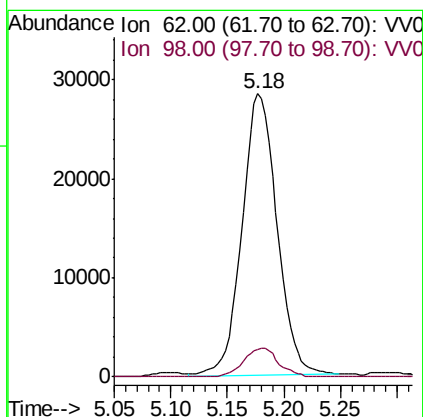
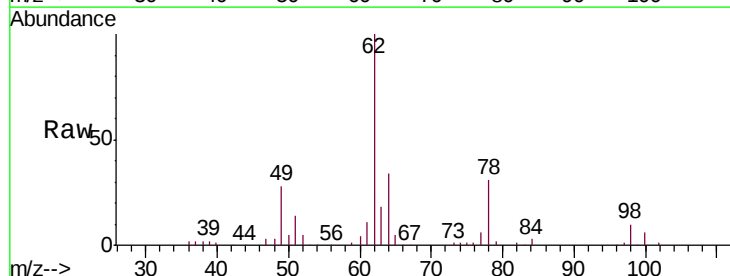
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

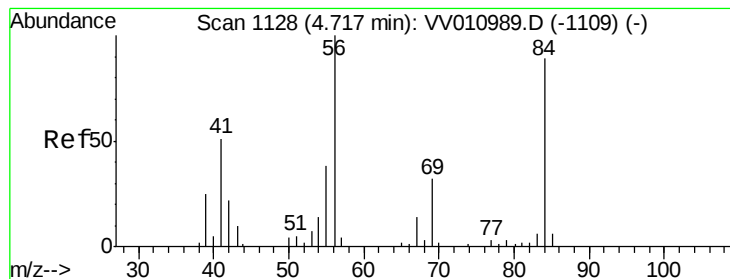
Tgt Ion: 83 Resp: 110489
Ion Ratio Lower Upper
83 100
85 65.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 24.310 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Tgt Ion: 62 Resp: 61324
Ion Ratio Lower Upper
62 100
98 9.8 8.6 13.0





#30

Cyclohexane

Concen: 24.471 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

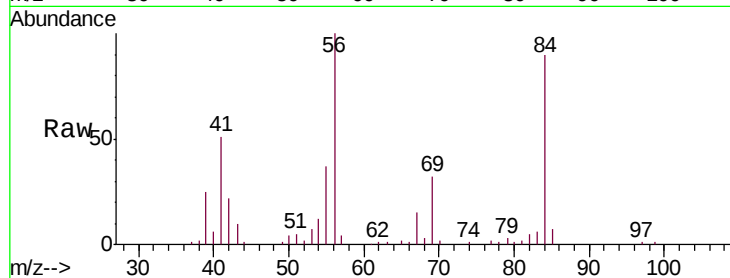
Tgt Ion: 56 Resp: 70294

Ion Ratio Lower Upper

56 100

69 31.9 25.1 37.7

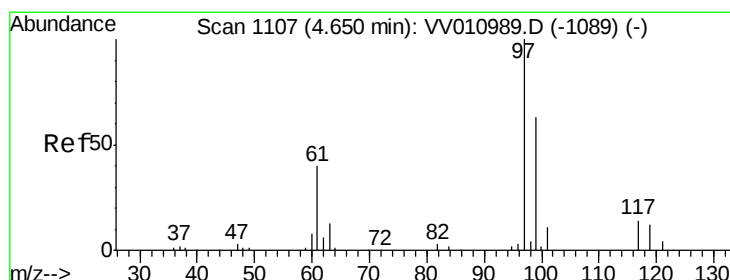
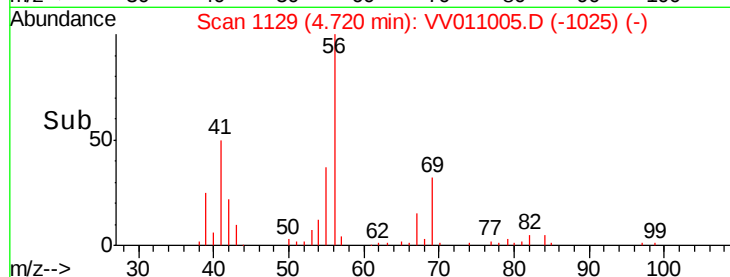
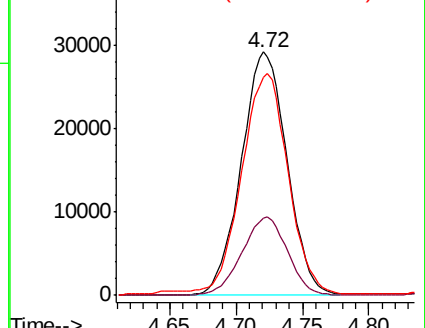
84 93.1 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 25.986 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

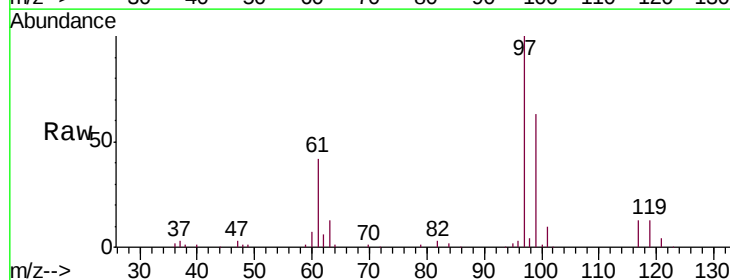
Tgt Ion: 97 Resp: 80810

Ion Ratio Lower Upper

97 100

99 62.5 51.0 76.4

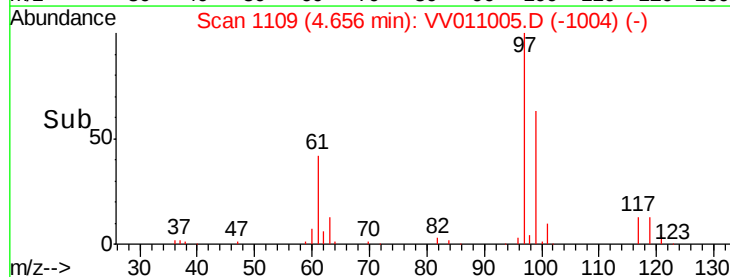
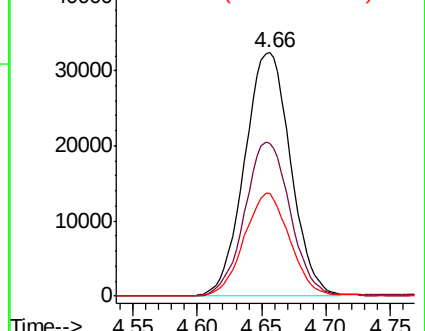
61 41.7 33.9 50.9

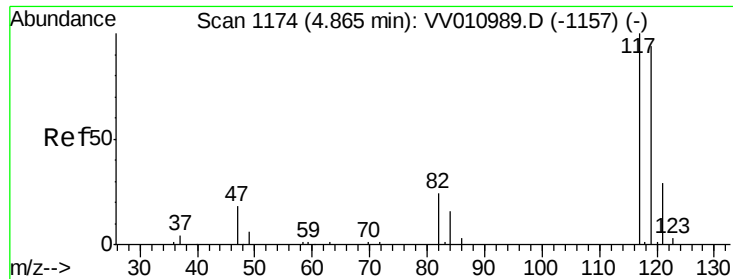


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 24.914 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

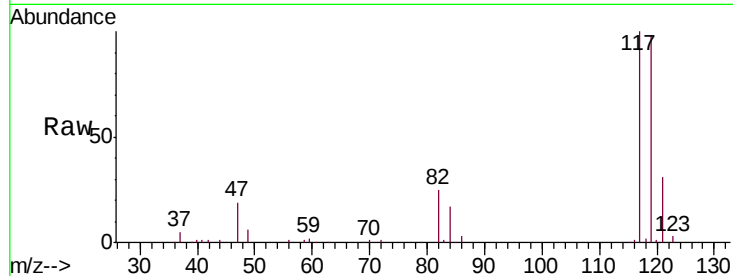
VSTD02568

Tgt Ion:117 Resp: 70654

Ion Ratio Lower Upper

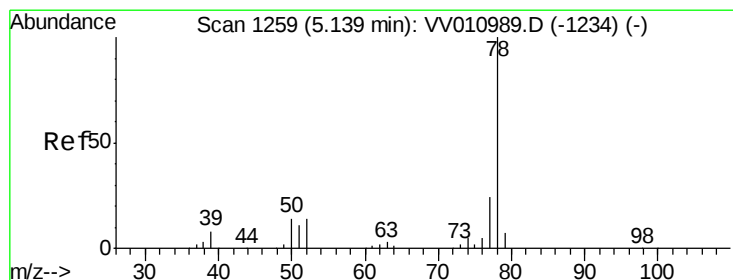
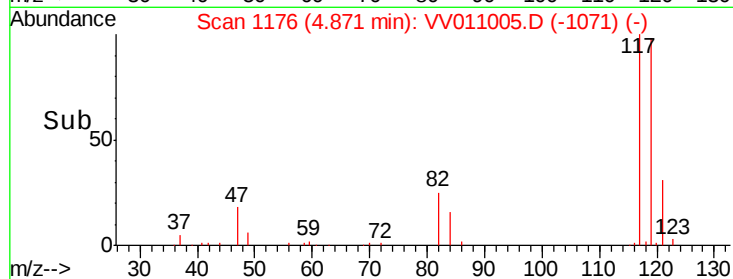
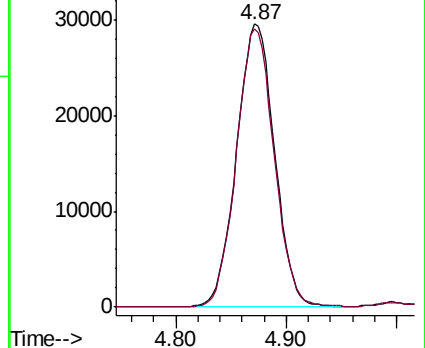
117 100

119 97.3 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.992 ug/L

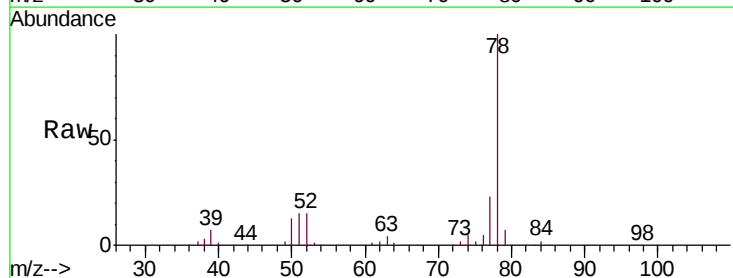
RT: 5.14 min Scan# 1261

Delta R.T. 0.01 min

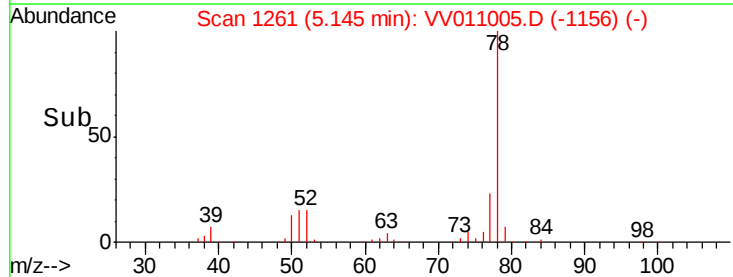
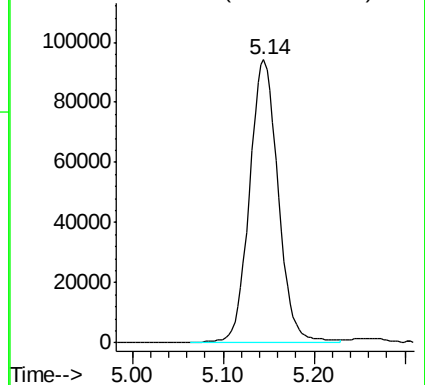
Lab File: VV011005.D

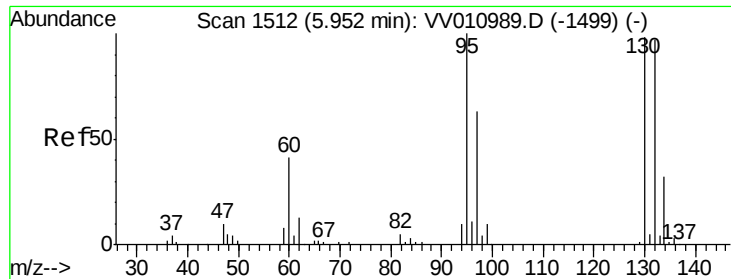
Acq: 21 May 2019 17:11

Tgt Ion: 78 Resp: 207136



Abundance Ion 78.00 (77.70 to 78.70): VV0

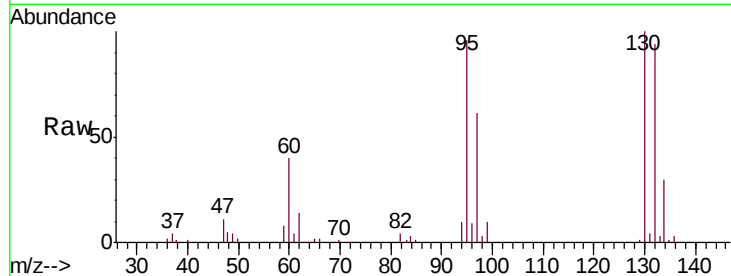




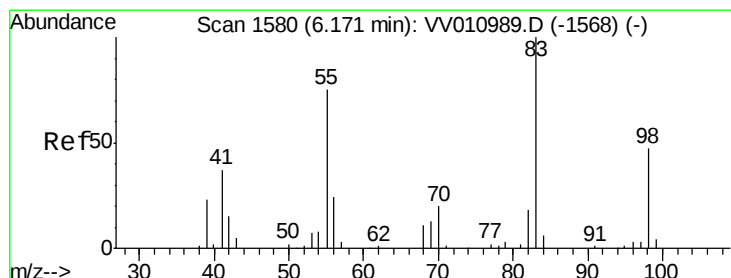
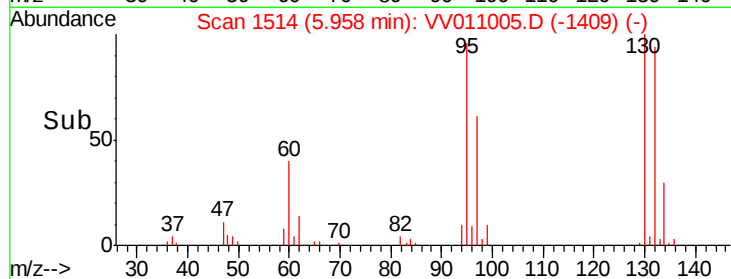
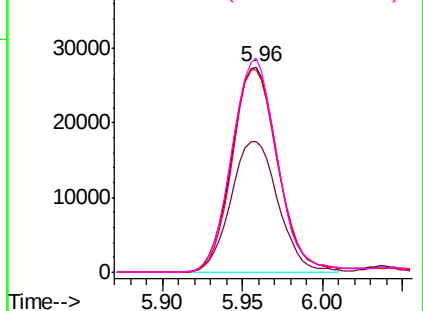
#35
 Trichloroethene
 Concen: 24.614 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.01 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion: 95 Resp: 54196
 Ion Ratio Lower Upper
 95 100
 97 65.6 43.4 80.6
 132 98.0 68.8 127.8
 130 103.4 69.9 129.9

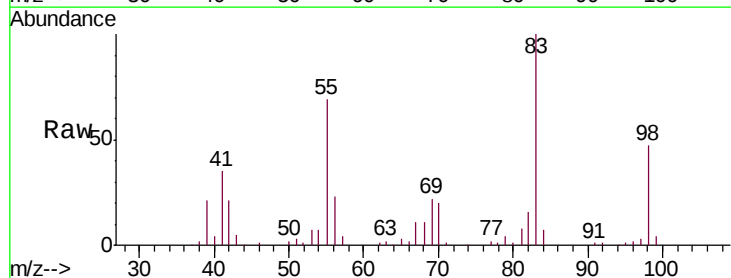


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

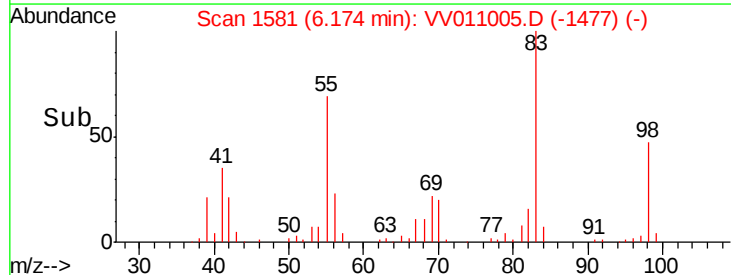
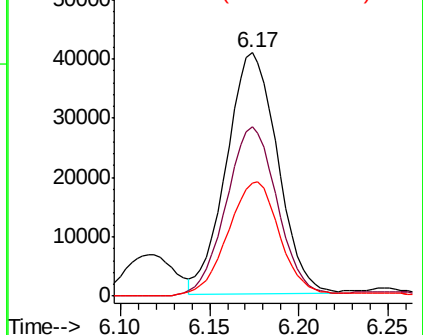


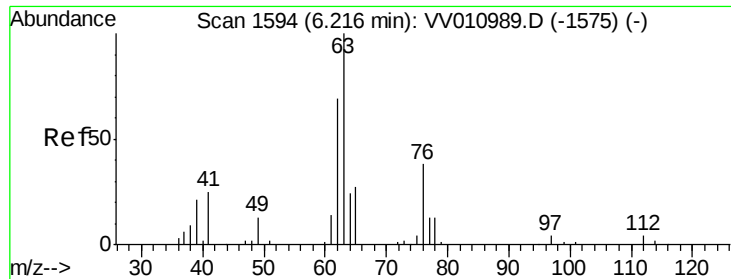
#36
 Methylcyclohexane
 Concen: 25.074 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion: 83 Resp: 81620
 Ion Ratio Lower Upper
 83 100
 55 70.3 57.0 85.4
 98 47.5 36.2 54.4



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: 24.763 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

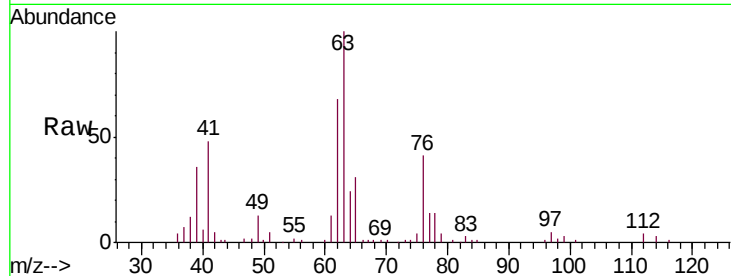
VSTD02568

Tgt Ion: 63 Resp: 51863

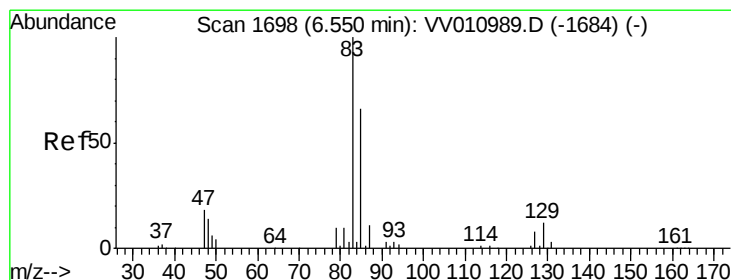
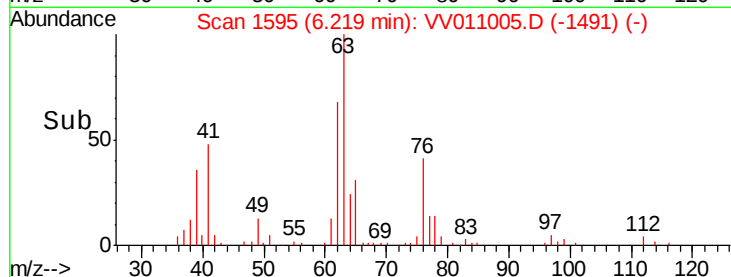
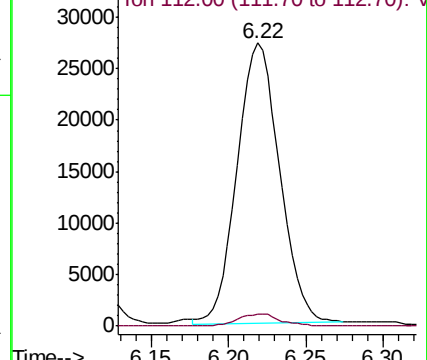
Ion Ratio Lower Upper

63 100

112 4.3 3.6 5.4



Abundance Ion 63.00 (62.70 to 63.70): VV011005.D (-1491) (-)



#41

Bromodichloromethane

Concen: 24.585 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

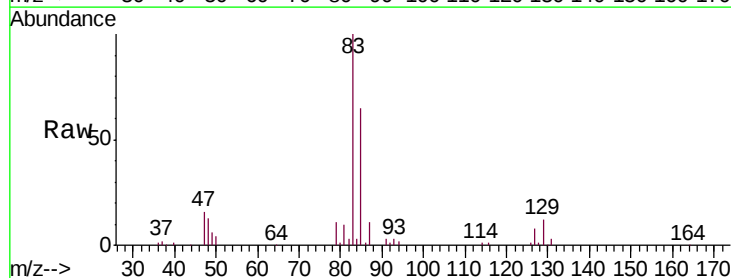
Tgt Ion: 83 Resp: 68822

Ion Ratio Lower Upper

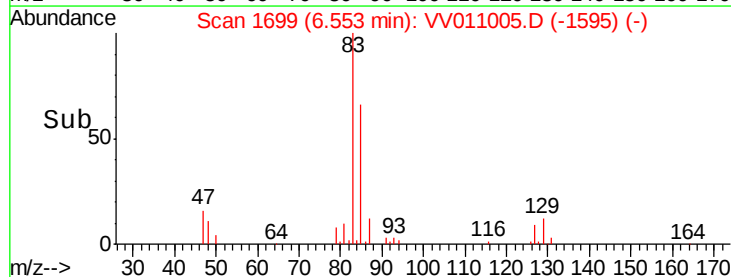
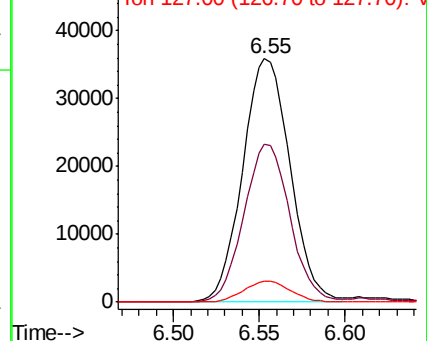
83 100

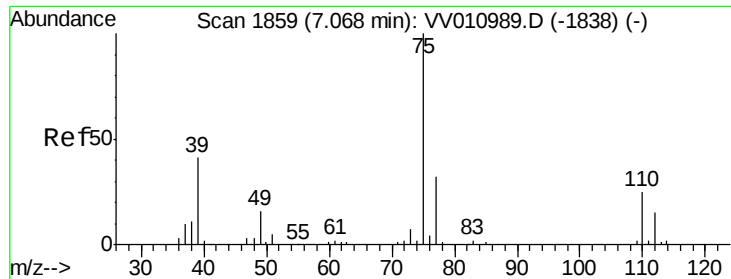
85 64.6 46.7 86.7

127 8.4 7.1 10.7



Abundance Ion 83.00 (82.70 to 83.70): VV011005.D (-1595) (-)



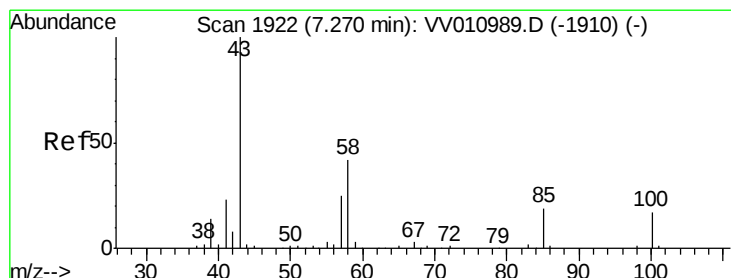
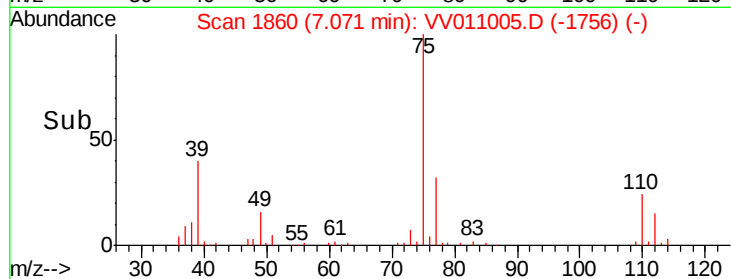
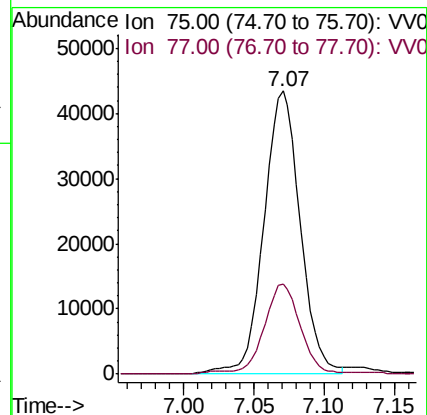
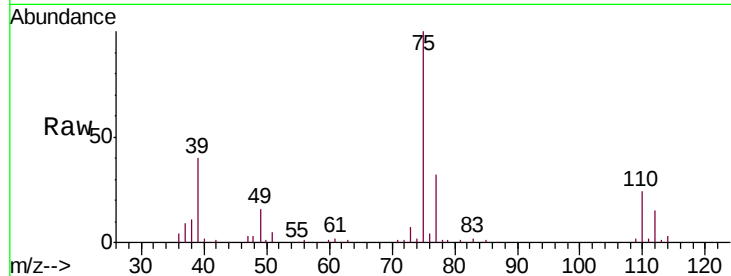


#42

cis-1,3-Dichloropropene
Concen: 25.050 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

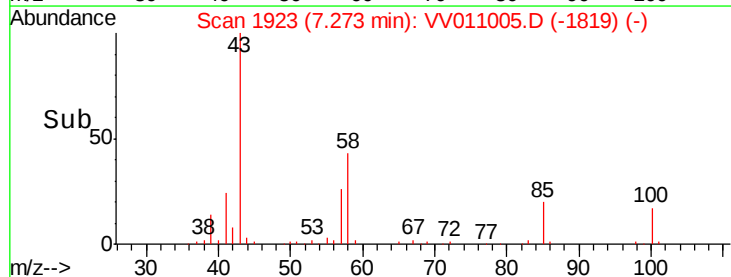
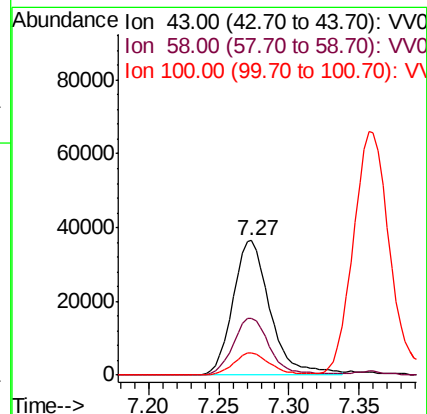
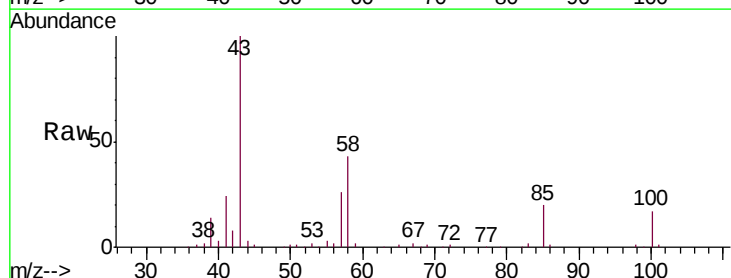
Tgt Ion: 75 Resp: 78090
Ion Ratio Lower Upper
75 100
77 32.0 22.9 42.5

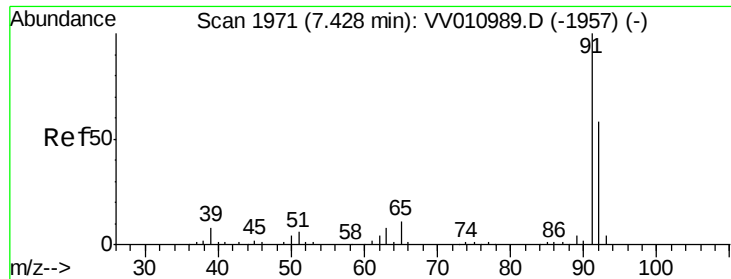


#43

4-Methyl-2-pentanone
Concen: 44.975 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Tgt Ion: 43 Resp: 67522
Ion Ratio Lower Upper
43 100
58 41.5 33.1 49.7
100 16.3 13.1 19.7





#44

Toluene

Concen: 26.105 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

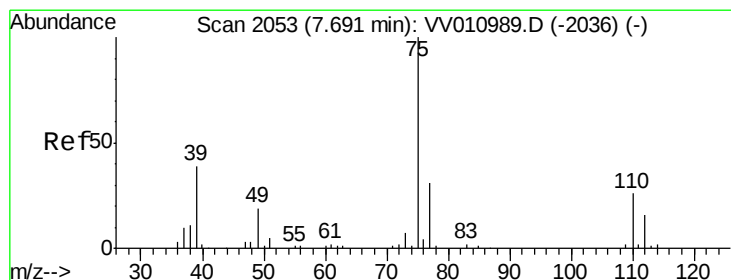
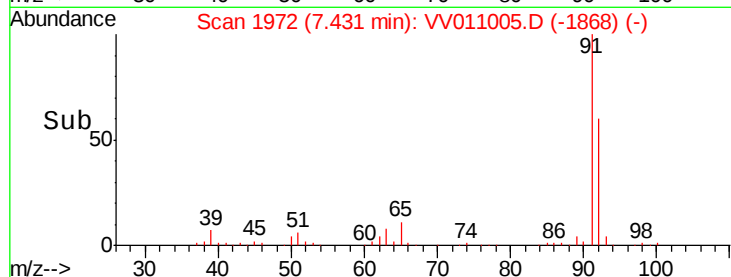
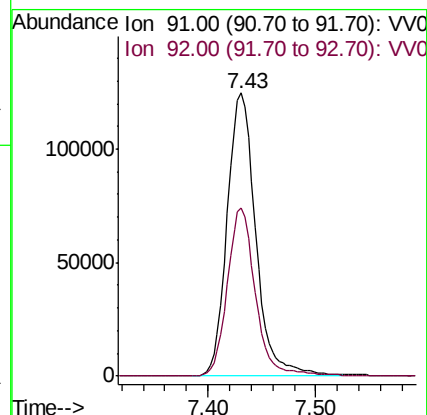
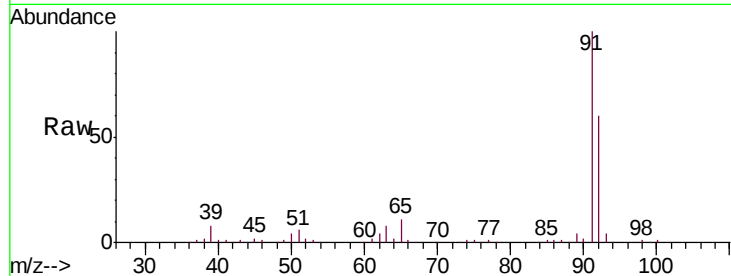
Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Tgt Ion: 91 Resp: 230863

Ion Ratio Lower Upper

91 100

92 59.6 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 24.915 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV011005.D

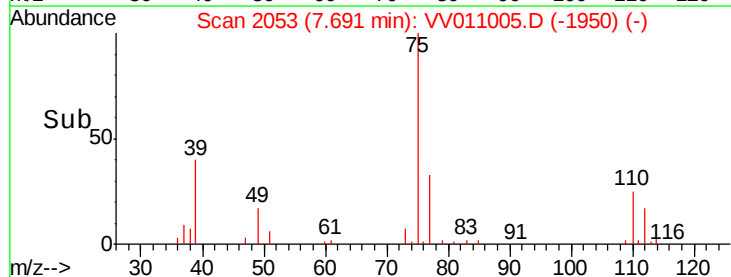
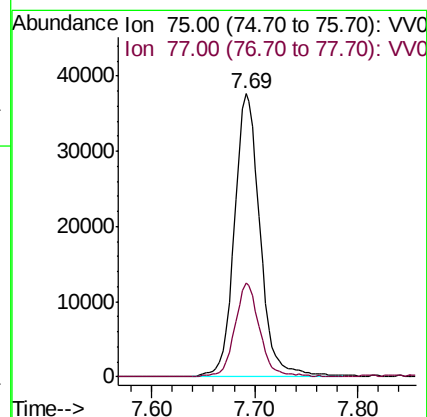
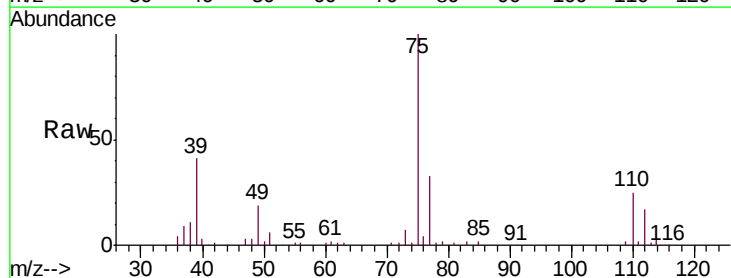
Acq: 21 May 2019 17:11

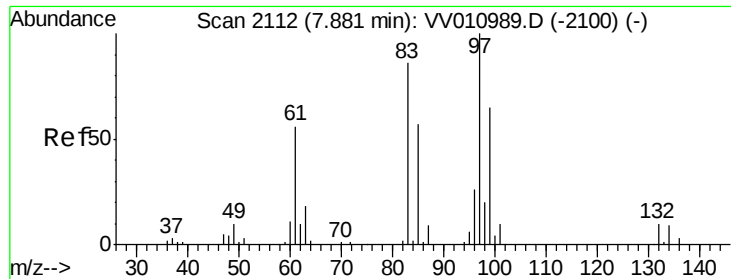
Tgt Ion: 75 Resp: 65427

Ion Ratio Lower Upper

75 100

77 33.0 22.0 41.0

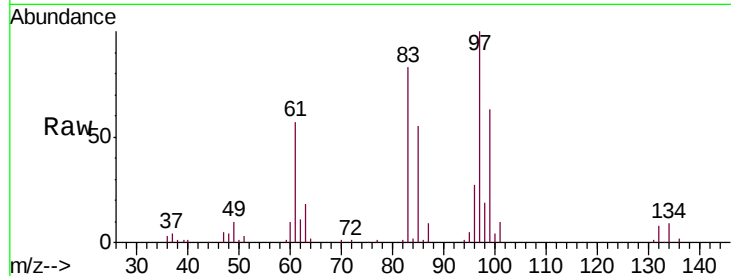




#46
 1,1,2-Trichloroethane
 Concen: 25.432 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion:	97	Resp:	45387
Ion	Ratio	Lower	Upper
97	100		
83	83.4	61.6	114.4
85	55.0	40.2	74.6
99	63.3	45.1	83.7



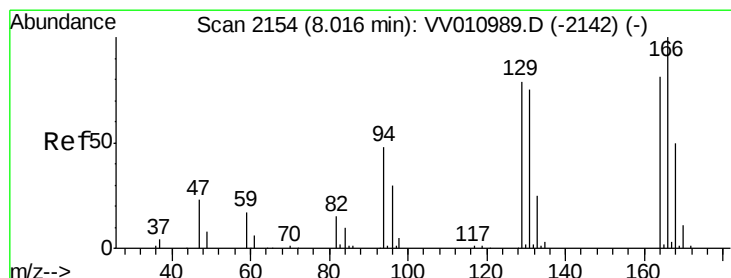
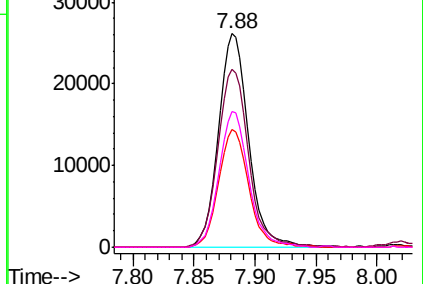
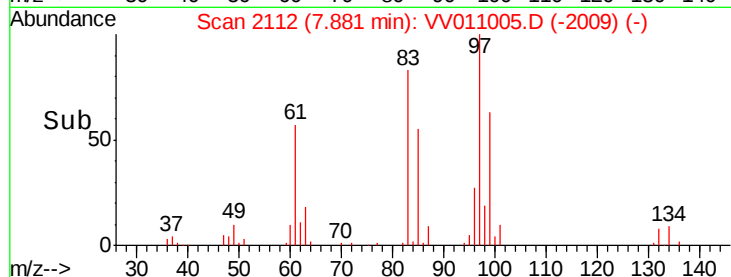
Abundance

Ion 97.00 (96.70 to 97.70): VV011005.D (-2009) (-)

Ion 83.00 (82.70 to 83.70): VV011005.D (-2009) (-)

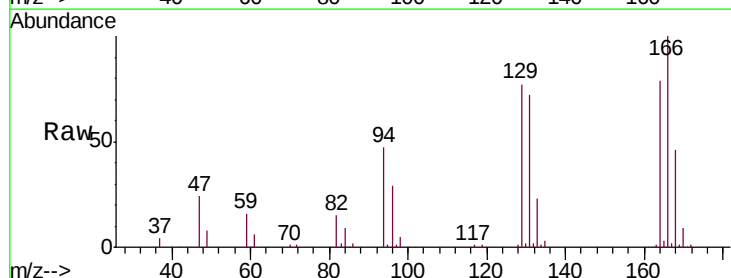
Ion 85.00 (84.70 to 85.70): VV011005.D (-2009) (-)

Ion 99.00 (98.70 to 99.70): VV011005.D (-2009) (-)



#47
 Tetrachloroethene
 Concen: 24.726 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion:	164	Resp:	42498
Ion	Ratio	Lower	Upper
164	100		
129	97.5	67.8	125.8
131	90.6	64.1	119.1
166	126.1	86.1	159.9



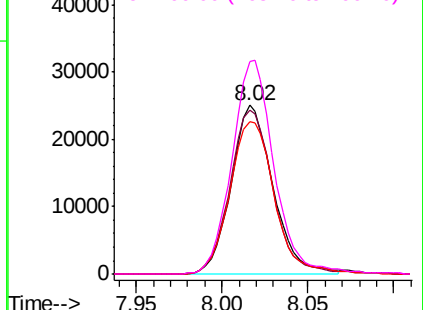
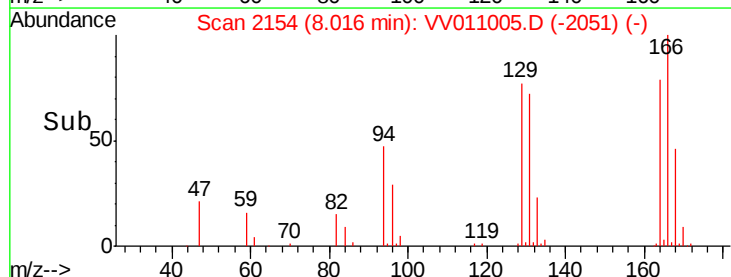
Abundance

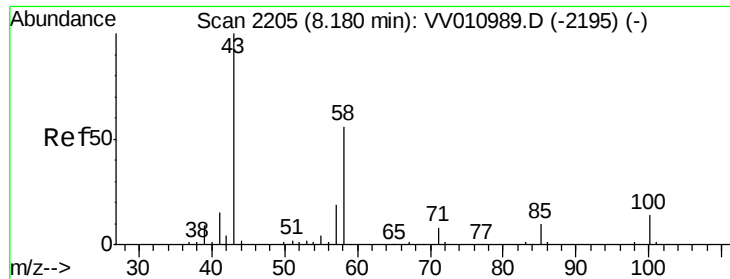
Ion 164.00 (163.70 to 164.70): VV011005.D (-2051) (-)

Ion 129.00 (128.70 to 129.70): VV011005.D (-2051) (-)

Ion 131.00 (130.70 to 131.70): VV011005.D (-2051) (-)

Ion 166.00 (165.70 to 166.70): VV011005.D (-2051) (-)

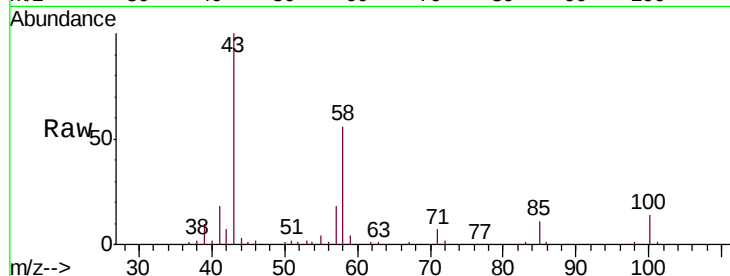




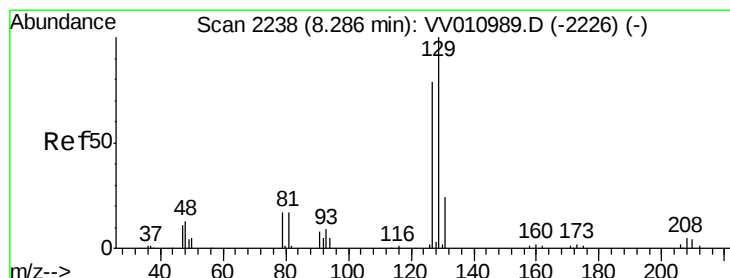
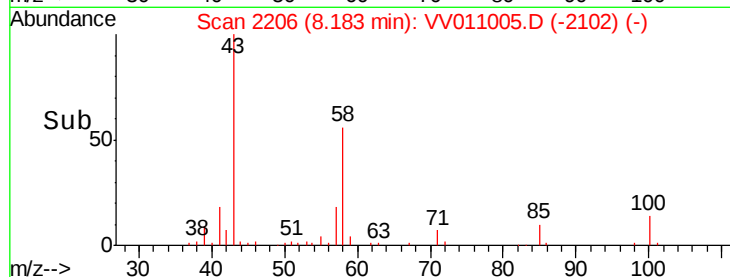
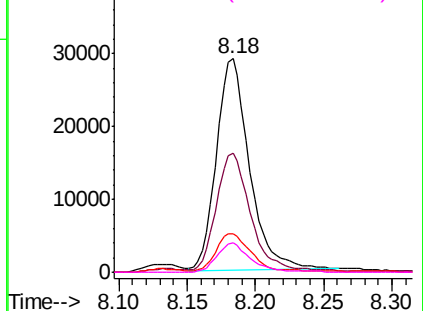
#49
2-Hexanone
Concen: 44.759 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Instrument :
MSVOA_V
ClientSampleId :
VSTD02568

Tgt Ion: 43 Resp: 49063
Ion Ratio Lower Upper
43 100
58 55.6 46.0 69.0
57 19.2 14.5 21.7
100 13.9 10.3 15.5

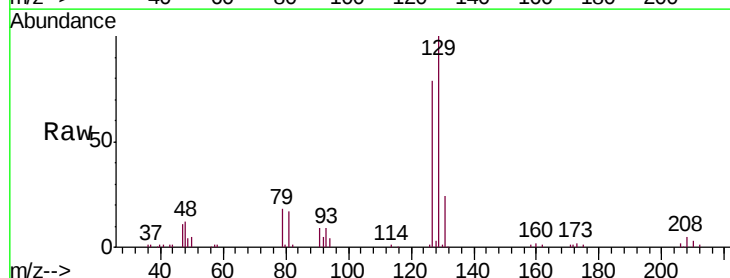


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

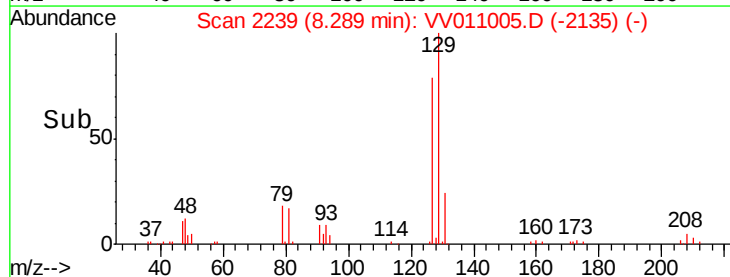
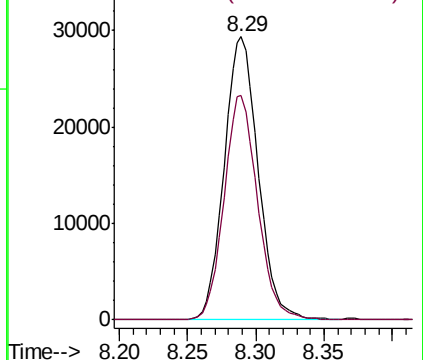


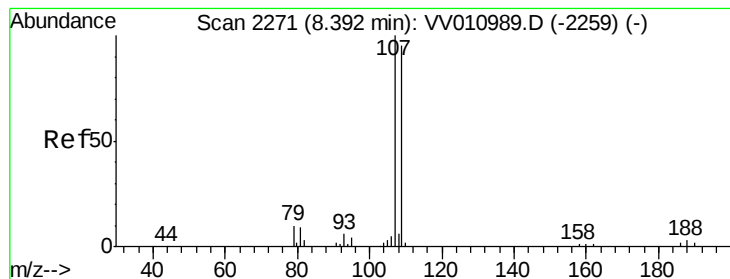
#50
Dibromochloromethane
Concen: 24.195 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011005.D
Acq: 21 May 2019 17:11

Tgt Ion: 129 Resp: 50823
Ion Ratio Lower Upper
129 100
127 79.4 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 24.560 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

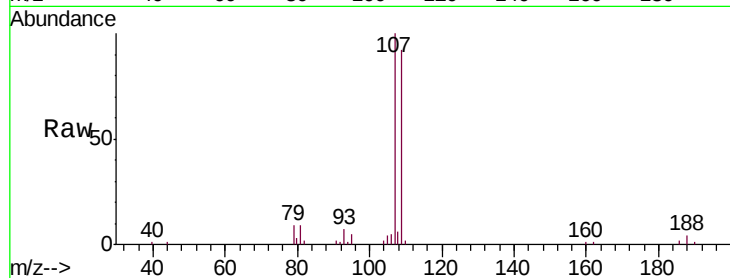
Tgt Ion:107 Resp: 42387

Ion Ratio Lower Upper

107 100

109 92.3 68.0 126.4

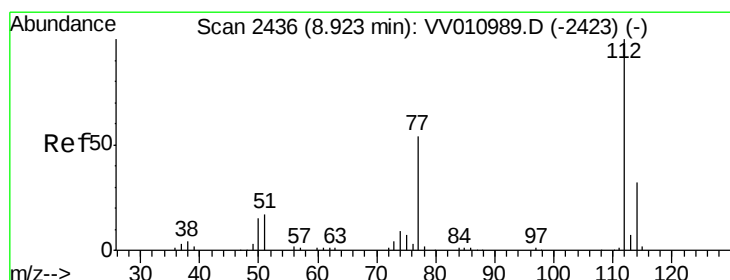
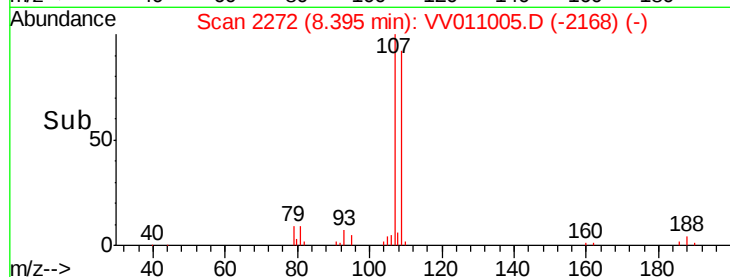
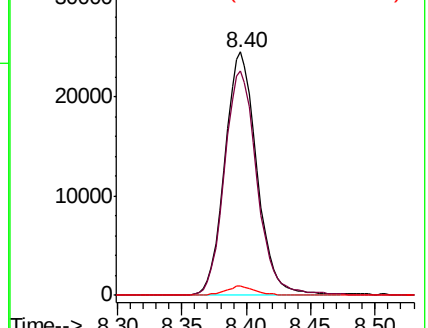
188 3.9 2.3 3.5#



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: 25.266 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

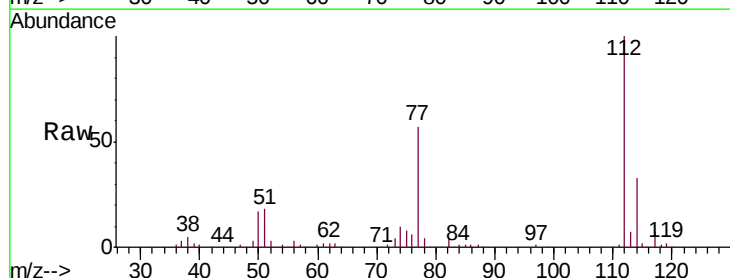
Tgt Ion:112 Resp: 153157

Ion Ratio Lower Upper

112 100

77 56.8 43.0 64.4

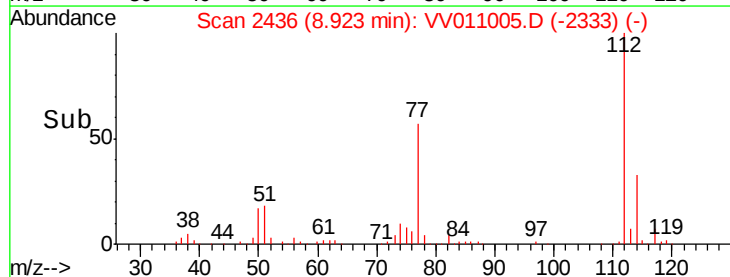
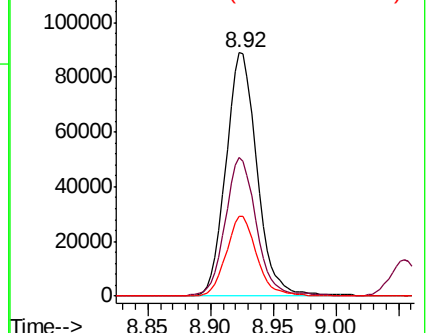
114 32.7 22.0 40.8

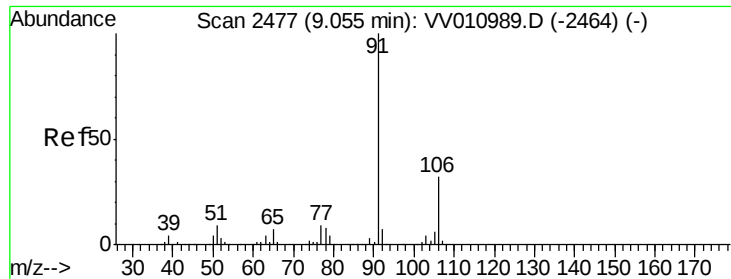


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.923 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

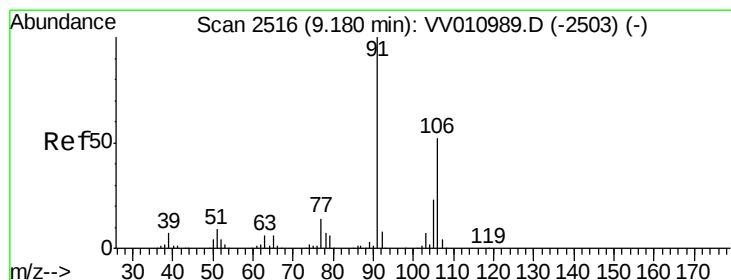
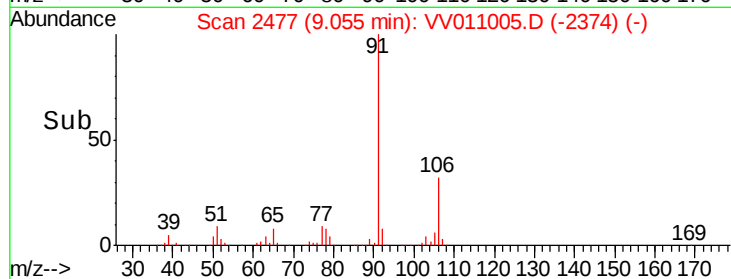
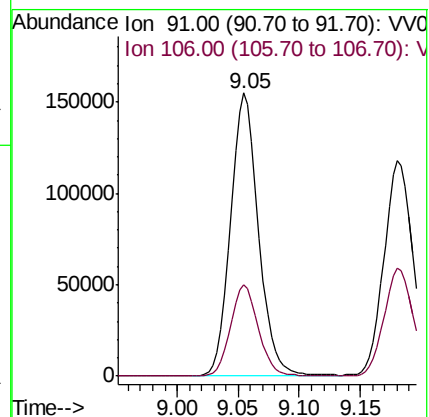
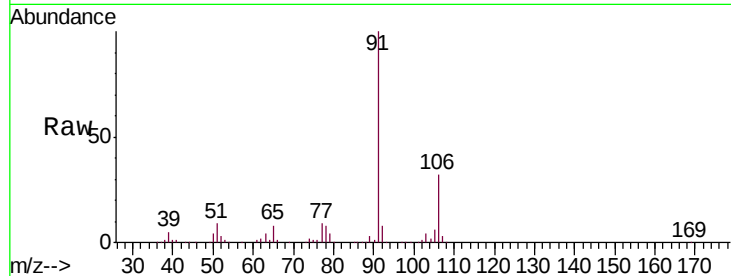
VSTD02568

Tgt Ion: 91 Resp: 249805

Ion Ratio Lower Upper

91 100

106 32.2 22.4 41.6



#54

m,p-Xylene

Concen: 26.244 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011005.D

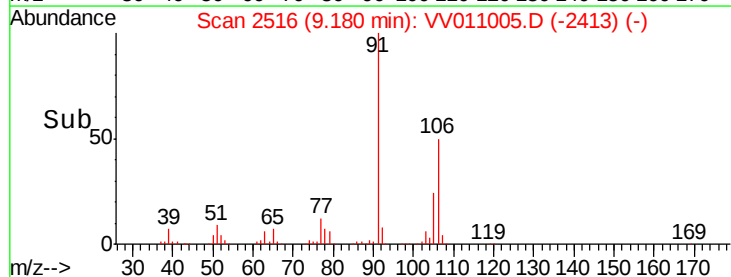
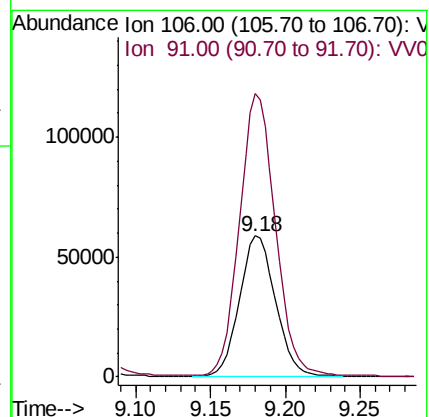
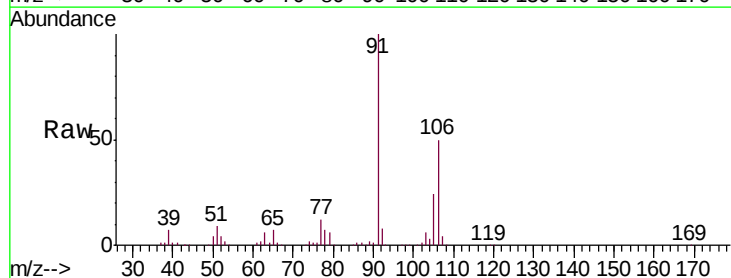
Acq: 21 May 2019 17:11

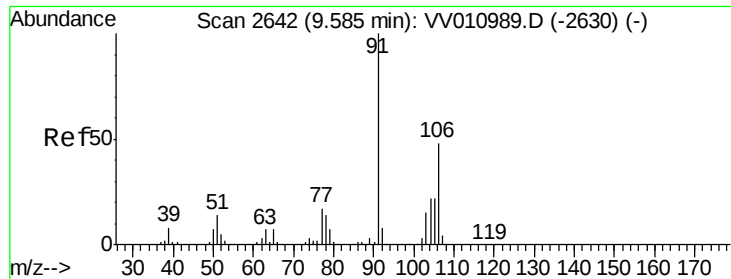
Tgt Ion: 106 Resp: 98567

Ion Ratio Lower Upper

106 100

91 200.5 138.3 256.9





#55

o-xylene

Concen: 27.270 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

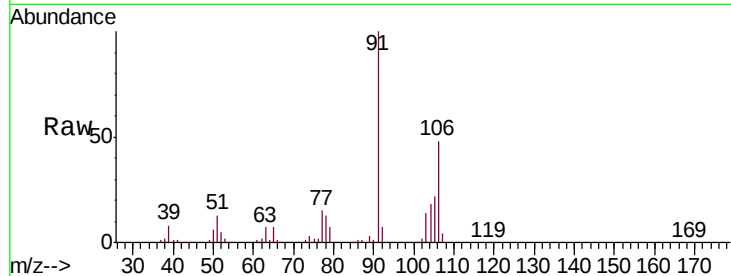
VSTD02568

Tgt Ion:106 Resp: 97713

Ion Ratio Lower Upper

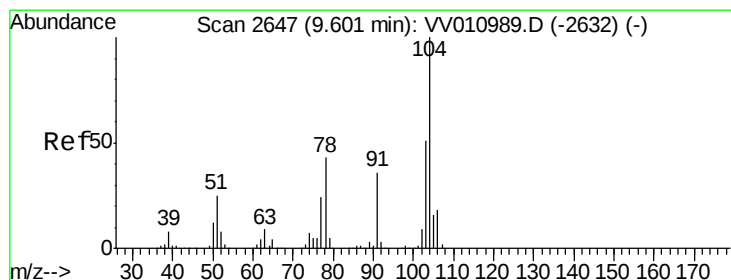
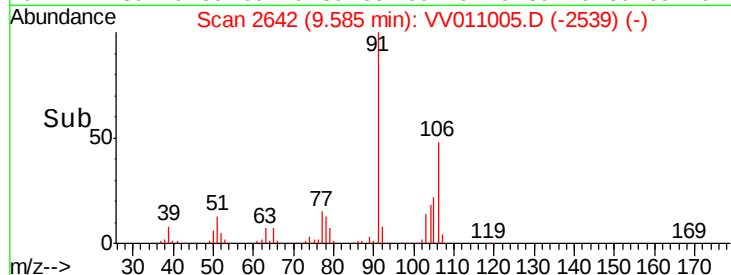
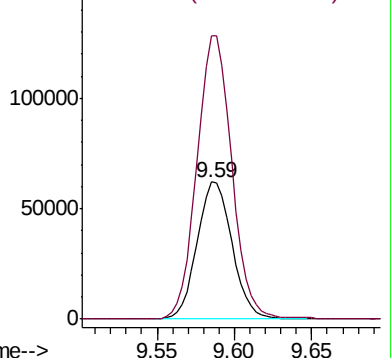
106 100

91 206.8 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.385 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011005.D

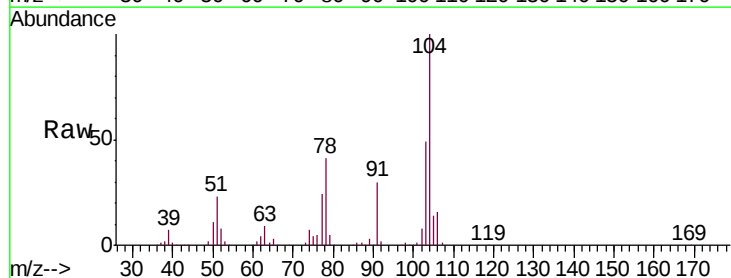
Acq: 21 May 2019 17:11

Tgt Ion:104 Resp: 169118

Ion Ratio Lower Upper

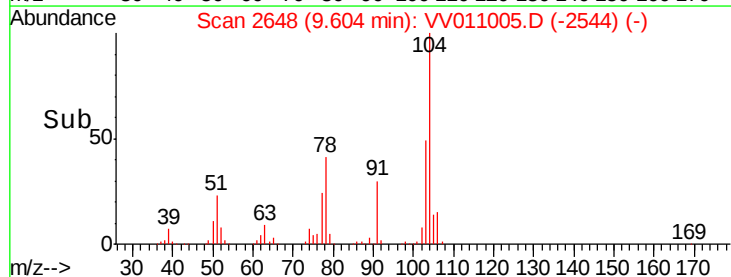
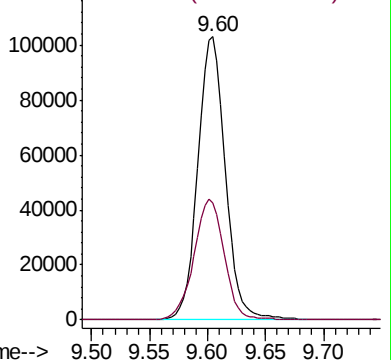
104 100

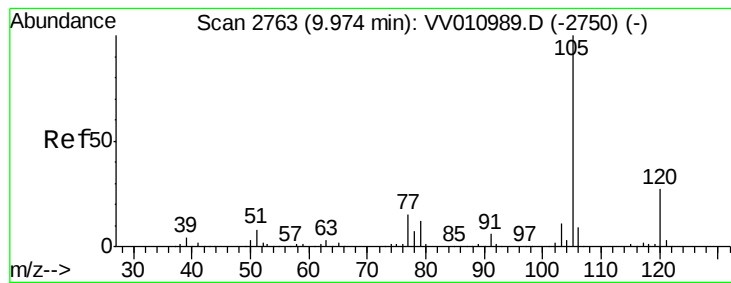
78 41.5 29.2 54.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.783 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

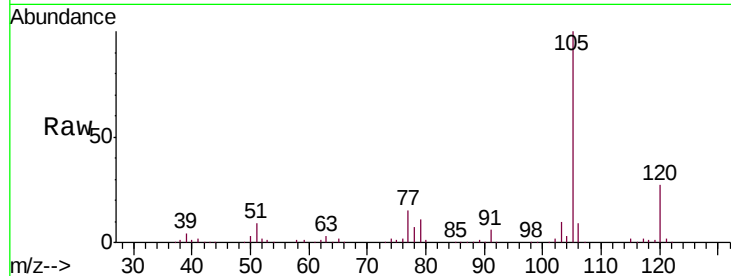
Tgt Ion: 105 Resp: 253177

Ion Ratio Lower Upper

105 100

120 26.9 21.9 32.9

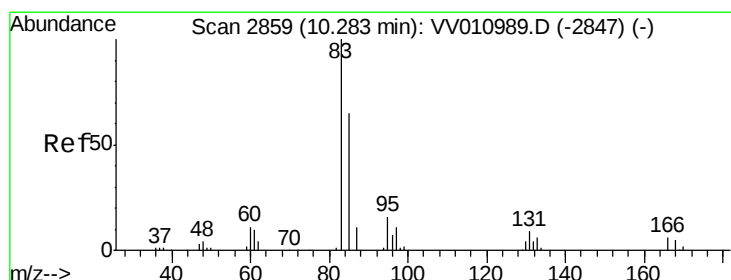
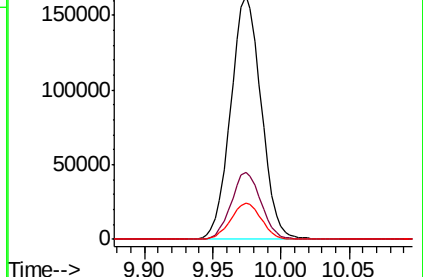
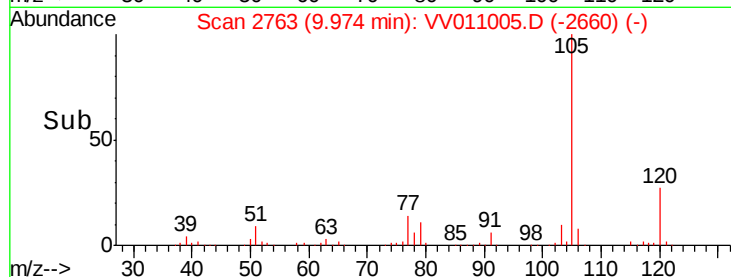
77 15.0 12.2 18.2



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: 24.289 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

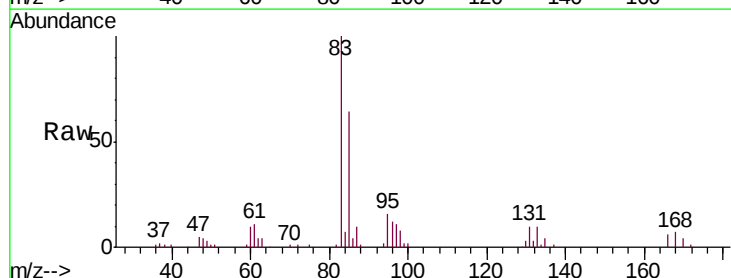
Tgt Ion: 83 Resp: 57077

Ion Ratio Lower Upper

83 100

85 64.3 44.4 82.5

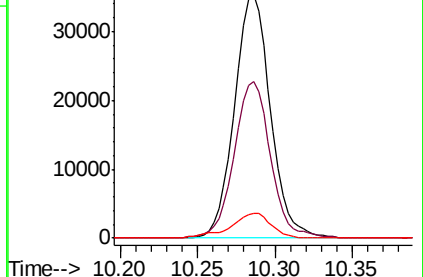
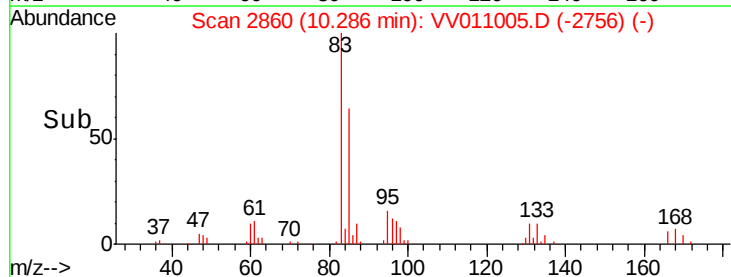
131 10.2 8.2 12.4

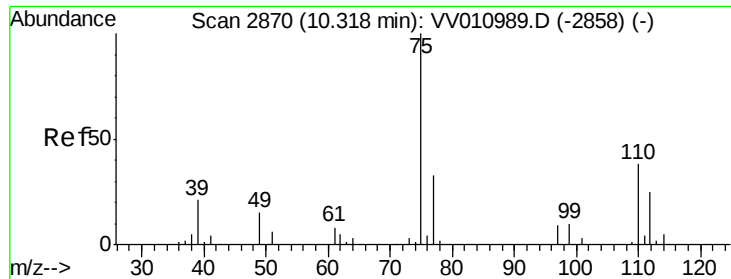


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

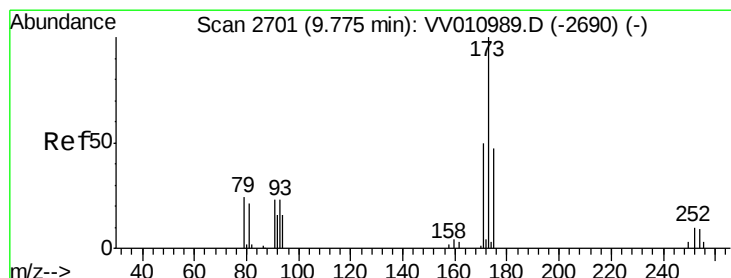
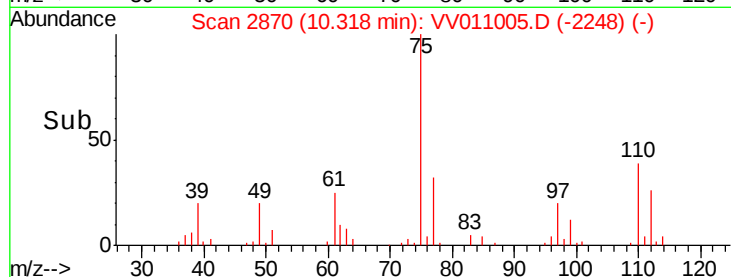
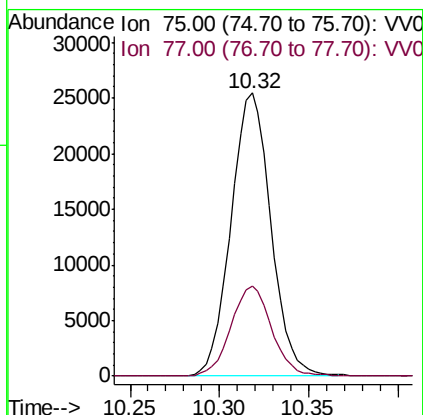
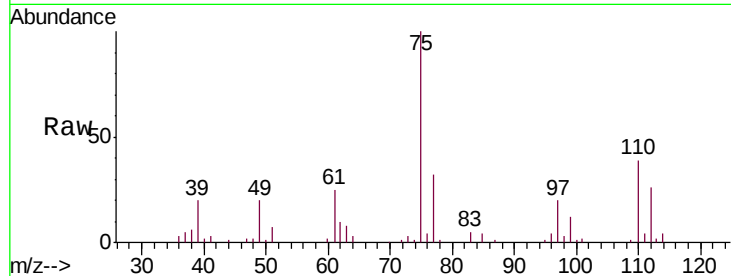




#59
 1,2,3-Trichloropropane
 Concen: 23.052 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

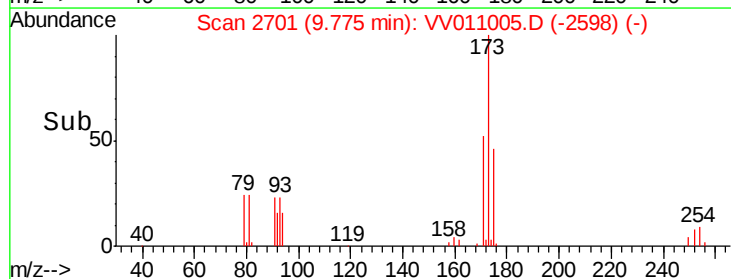
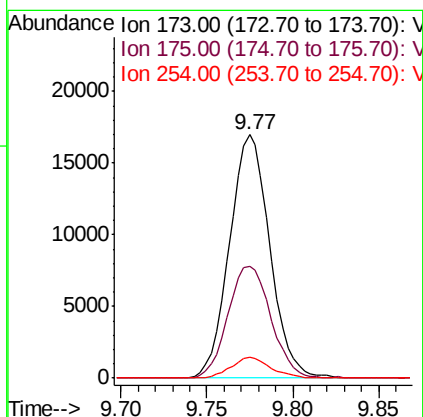
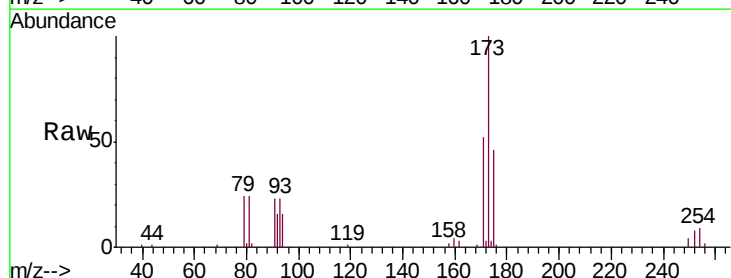
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

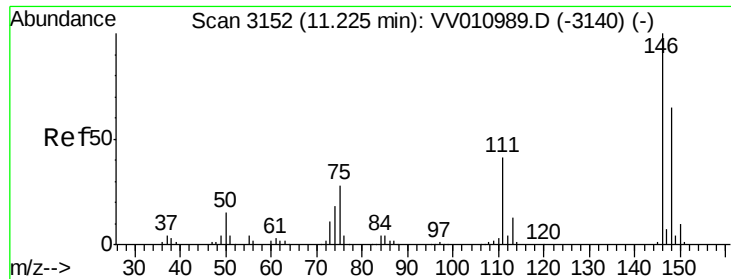
Tgt Ion: 75 Resp: 39792
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.4 38.2



#62
 Bromoform
 Concen: 22.339 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion: 173 Resp: 27586
 Ion Ratio Lower Upper
 173 100
 175 48.9 40.3 60.5
 254 8.3 6.1 9.1

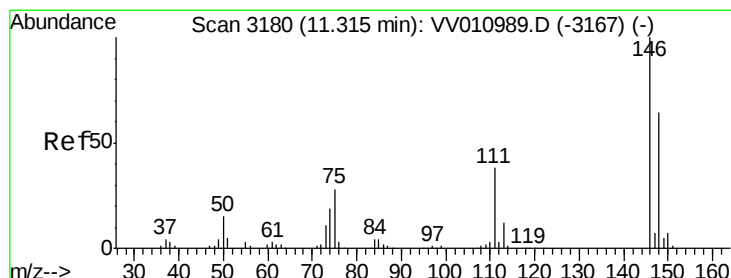
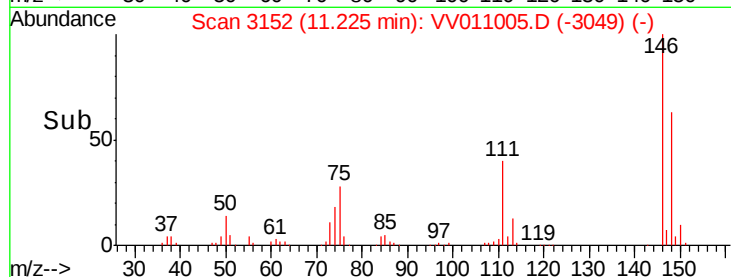
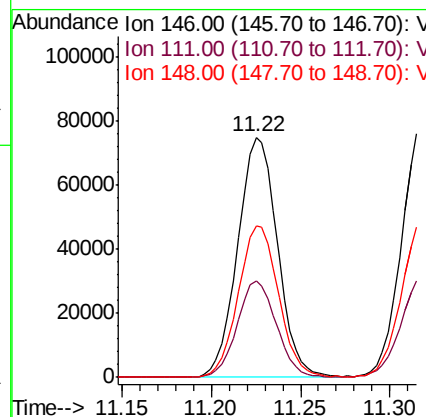
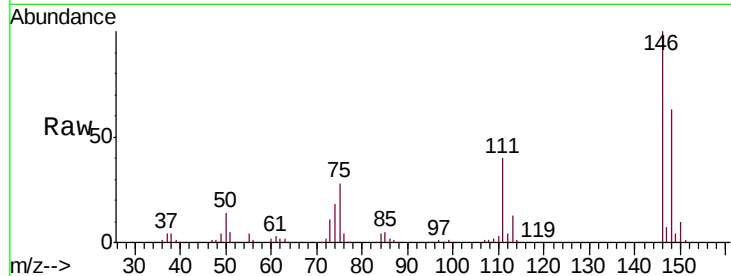




#63
 1,3-Dichlorobenzene
 Concen: 24.539 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

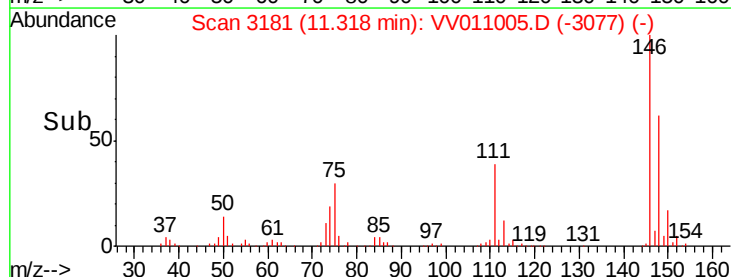
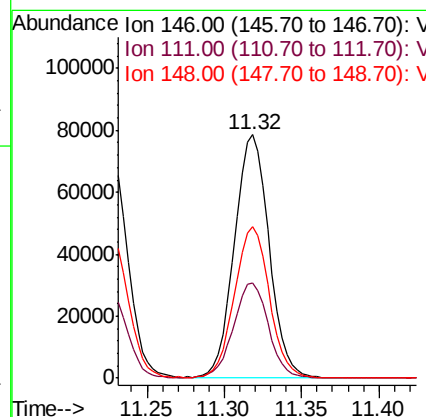
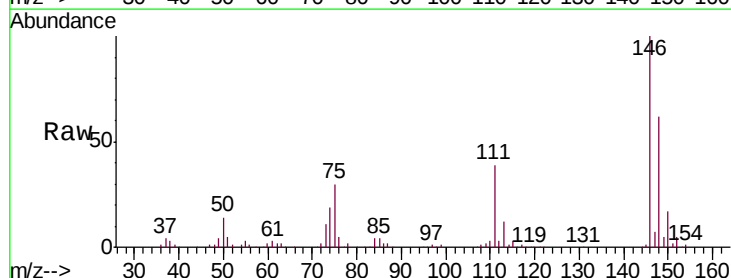
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

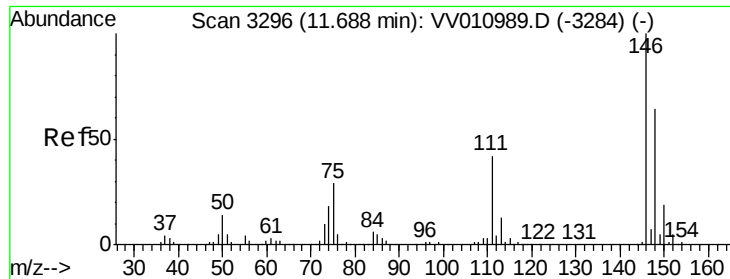
Tgt Ion:146 Resp: 116429
 Ion Ratio Lower Upper
 146 100
 111 40.3 28.4 52.8
 148 63.2 44.8 83.2



#64
 1,4-Dichlorobenzene
 Concen: 25.005 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion:146 Resp: 122183
 Ion Ratio Lower Upper
 146 100
 111 38.9 26.5 49.1
 148 62.1 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 25.396 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD02568

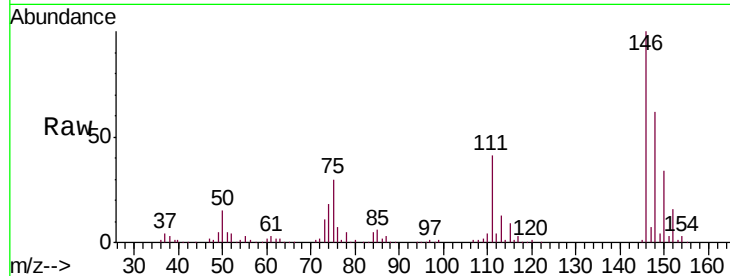
Tgt Ion:146 Resp: 116832

Ion Ratio Lower Upper

146 100

111 41.3 32.8 49.2

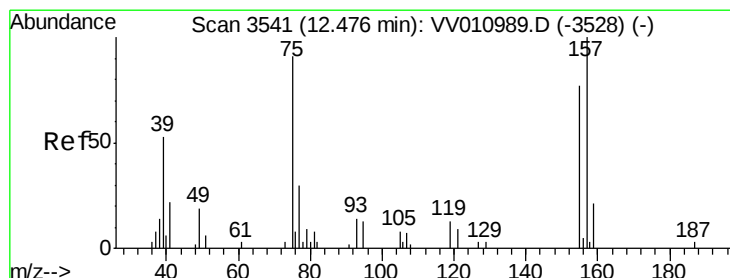
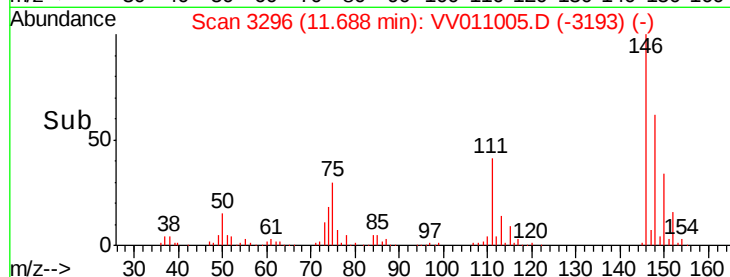
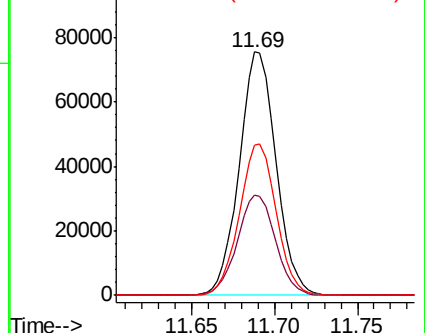
148 61.8 51.9 77.9



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: 22.199 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

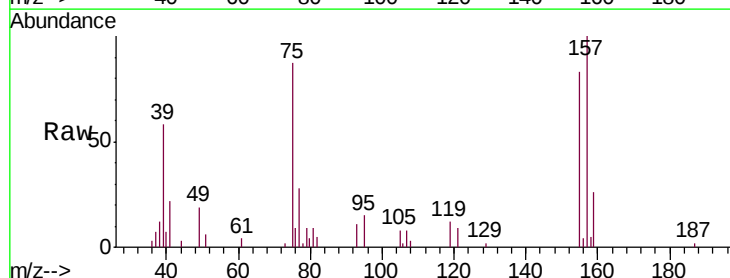
Tgt Ion: 75 Resp: 8113

Ion Ratio Lower Upper

75 100

157 114.7 87.0 130.4

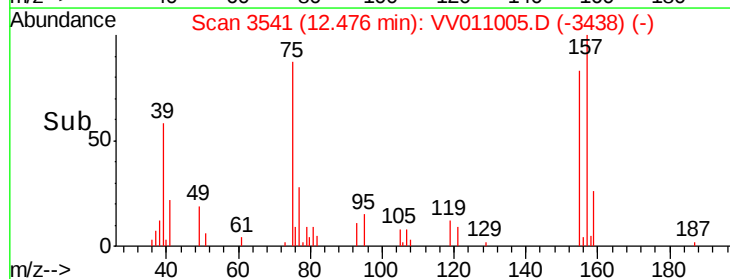
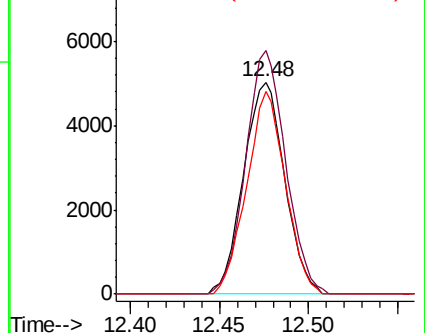
155 95.5 67.8 101.8

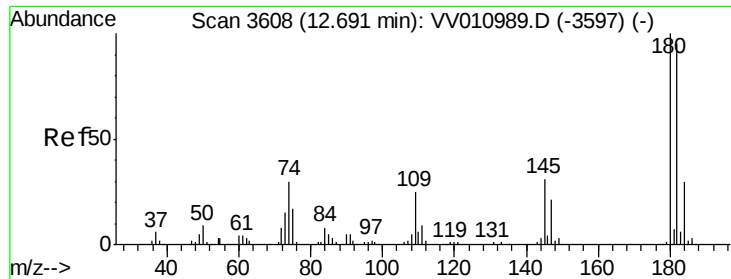


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

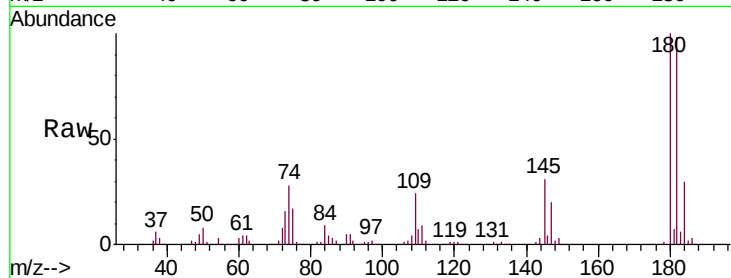




#67
 1,3,5-Trichlorobenzene
 Concen: 24.766 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02568

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.2	114.2
184	30.5	24.6	37.0
145	31.0	24.1	36.1



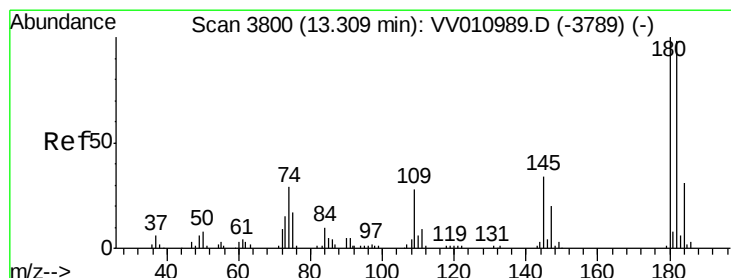
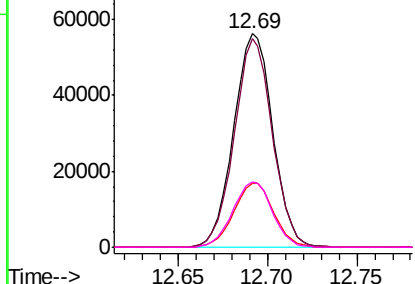
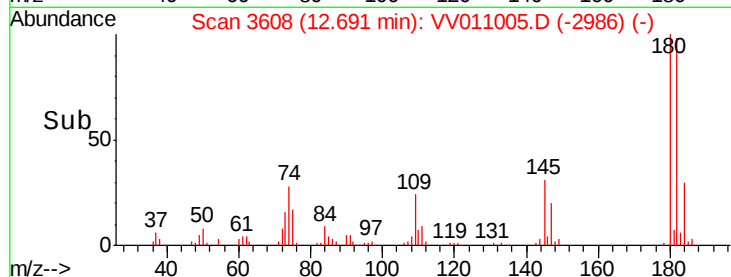
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

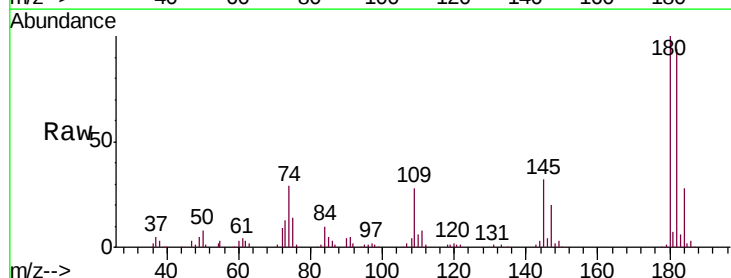
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.730 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011005.D
 Acq: 21 May 2019 17:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.4	113.2
145	32.1	25.1	37.7

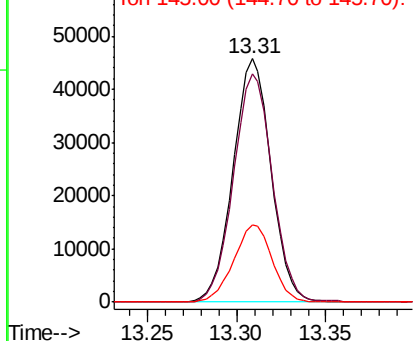
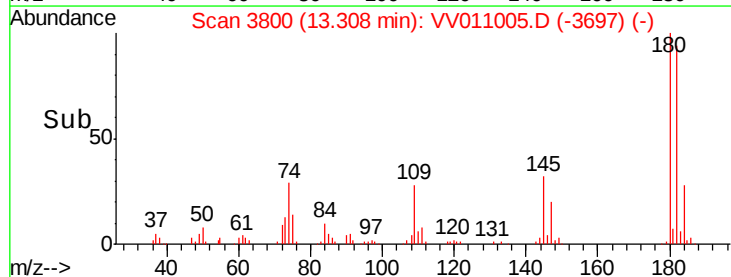


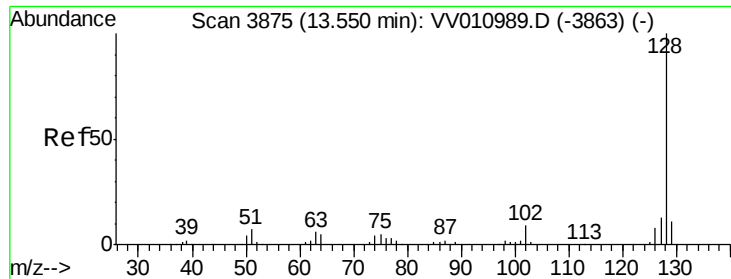
Abundance

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: 24.114 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

Instrument :

MSVOA_V

ClientSampled :

VSTD02568

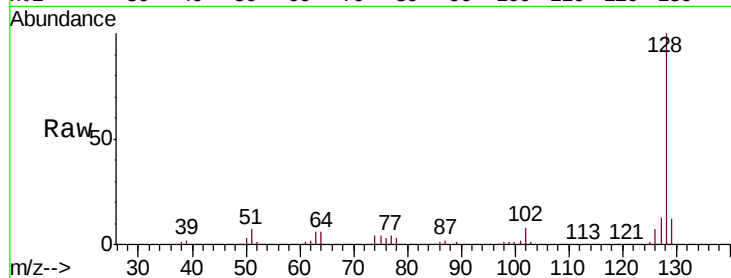
Tgt Ion:128 Resp: 132976

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

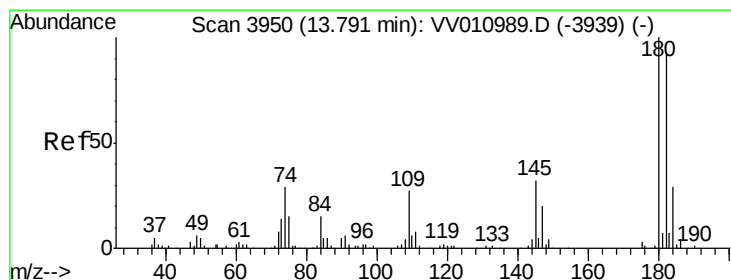
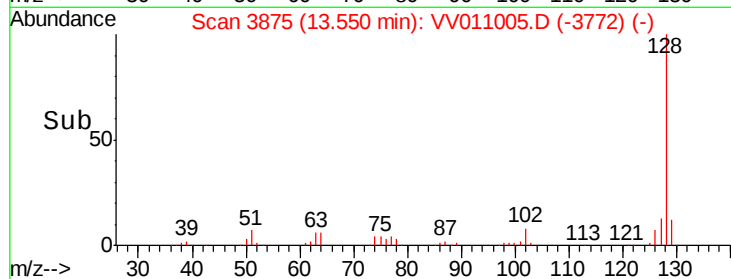
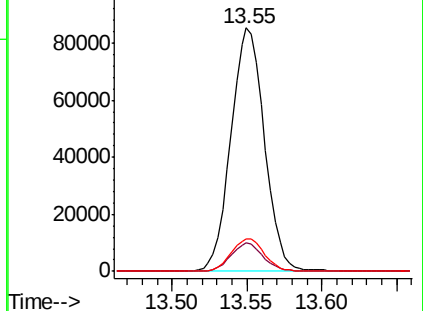
127 13.2 10.3 15.5



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: 24.794 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011005.D

Acq: 21 May 2019 17:11

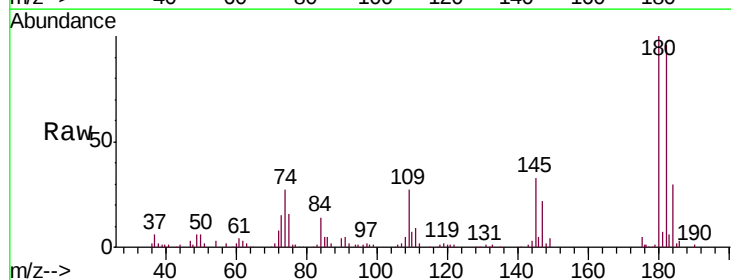
Tgt Ion:180 Resp: 66588

Ion Ratio Lower Upper

180 100

182 94.9 75.7 113.5

145 33.3 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

