

Data File : VV010694.D
Acq On : 07 May 2019 16:16
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

Quant Time: May 08 02:57:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 02:50:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	109804	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	111994	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	52906	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	43010	25.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.84%
7) Chloroethane-d5	1.56	69	35357	25.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.76%
10) 1,1-Dichloroethene-d2	2.12	63	92914	25.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.44%
20) 2-Butanone-d5	3.93	46	23071	45.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.14%
24) Chloroform-d	4.40	84	67906	22.68	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.72%
26) 1,2-Dichloroethane-d4	5.08	65	44127	23.60	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.40%
29) Benzene-d6	5.09	84	143408	24.33	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.32%
33) 1,2-Dichloropropane-d6	6.12	67	44079	23.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.88%
37) Toluene-d8	7.36	98	133901	23.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.88%
38) trans-1,3-Dichloropropene-	7.66	79	19806	23.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	92.52%
39) 2-Hexanone-d5	8.13	63	17888	45.51	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.02%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	41283	23.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.56%
61) 1,2-Dichlorobenzene-d4	11.67	152	49276	24.05	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	38857	25.551 ug/L	97
3) Chloromethane	1.25	50	44531	24.071 ug/L	99
5) Vinyl chloride	1.32	62	53761	25.028 ug/L	99
6) Bromomethane	1.51	94	24963	23.963 ug/L	95
8) Chloroethane	1.58	64	33835	25.292 ug/L	98
9) Trichlorofluoromethane	1.76	101	83041	25.681 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	47187	25.560 ug/L	100
12) 1,1-Dichloroethene	2.13	96	44774	25.901 ug/L	96
13) Acetone	2.19	43	43285	54.622 ug/L	98
14) Carbon disulfide	2.31	76	104304	24.553 ug/L	99
15) Methyl Acetate	2.46	43	19991	21.117 ug/L	98
16) Methylene chloride	2.53	84	38254	22.532 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	102593	23.701 ug/L	100
18) trans-1,2-Dichloroethene	2.78	96	37919	24.267 ug/L	99
19) 1,1-Dichloroethane	3.22	63	73759	24.451 ug/L	98
21) 2-Butanone	4.01	43	36009	47.945 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	42403	23.755 ug/L	98

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 02:50:33 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	19170	23.891	ug/L	95
25) Chloroform	4.42	83	80309	24.166	ug/L	98
27) 1,2-Dichloroethane	5.18	62	58540	24.100	ug/L	98
30) Cyclohexane	4.72	56	70832	25.217	ug/L	97
31) 1,1,1-Trichloroethane	4.65	97	68987	24.705	ug/L	98
32) Carbon tetrachloride	4.87	117	62118	25.538	ug/L	100
34) Benzene	5.14	78	162160	24.665	ug/L	100
35) Trichloroethene	5.96	95	45660	24.794	ug/L	98
36) Methylcyclohexane	6.17	83	76642	25.967	ug/L	98
40) 1,2-Dichloropropane	6.22	63	41557	23.761	ug/L	98
41) Bromodichloromethane	6.55	83	58011	24.140	ug/L	95
42) cis-1,3-Dichloropropene	7.07	75	70018	25.311	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	66009	44.838	ug/L	98
44) Toluene	7.43	91	188781	25.282	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	57474	24.674	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	33434	23.270	ug/L	96
47) Tetrachloroethene	8.02	164	33919	25.432	ug/L	91
49) 2-Hexanone	8.18	43	54039	48.280	ug/L	96
50) Dibromochloromethane	8.29	129	40027	24.226	ug/L	99
51) 1,2-Dibromoethane	8.40	107	33941	24.459	ug/L	98
52) Chlorobenzene	8.92	112	122703	25.153	ug/L	99
53) Ethylbenzene	9.05	91	221592	25.594	ug/L	99
54) m,p-Xylene	9.18	106	81833	25.299	ug/L	96
55) o-xylene	9.59	106	82480	25.708	ug/L	99
56) Styrene	9.60	104	139203	25.652	ug/L	98
57) Isopropylbenzene	9.97	105	221036	25.821	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	44721	23.758	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	33925	23.092	ug/L	98
62) Bromoform	9.77	173	21461	23.822	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	94844	25.754	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	93970	24.980	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	87951	24.589	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	7432	22.392	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	67918	25.602	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	53646	26.135	ug/L	99
69) Naphthalene	13.55	128	115379	26.261	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	51588	26.793	ug/L	99

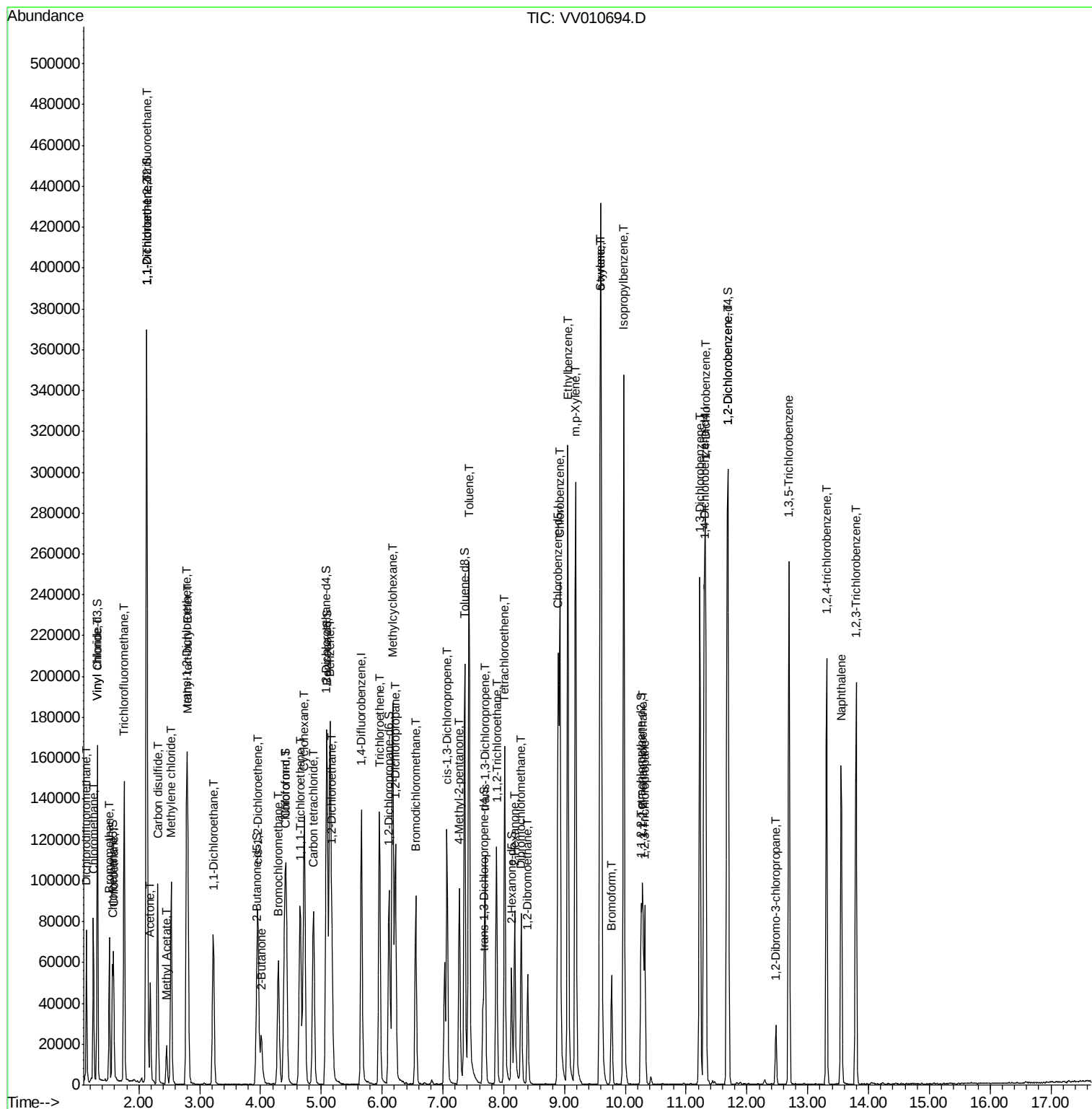
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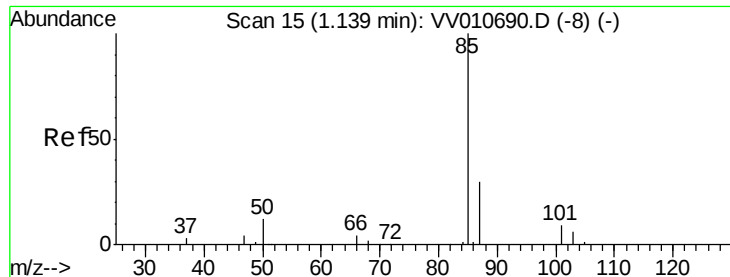
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#2

Dichlorodifluoromethane

Concen: 25.551 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

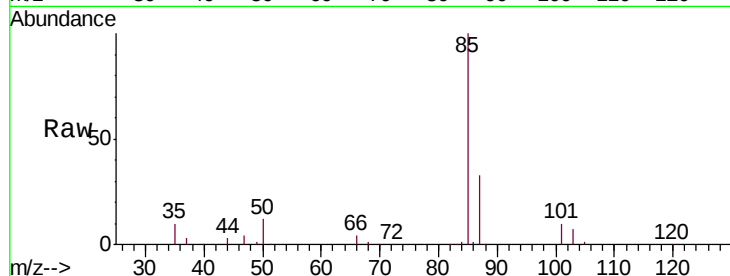
VSTD02586

Tgt Ion: 85 Resp: 38857

Ion Ratio Lower Upper

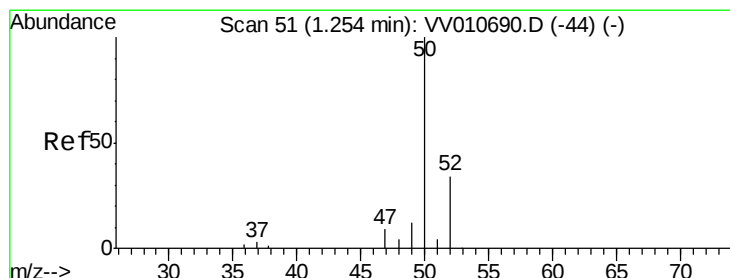
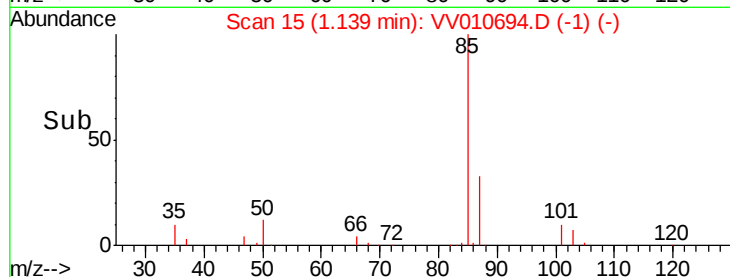
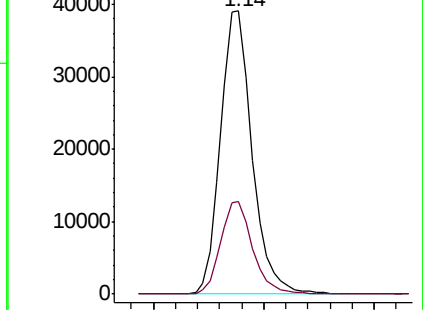
85 100

87 33.1 21.9 40.7



Abundance Ion 85.00 (84.70 to 85.70): VV010690.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010690.D (-8) (-)



#3

Chloromethane

Concen: 24.071 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010694.D

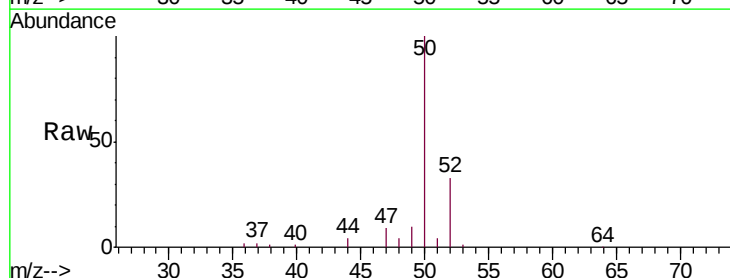
Acq: 07 May 2019 16:16

Tgt Ion: 50 Resp: 44531

Ion Ratio Lower Upper

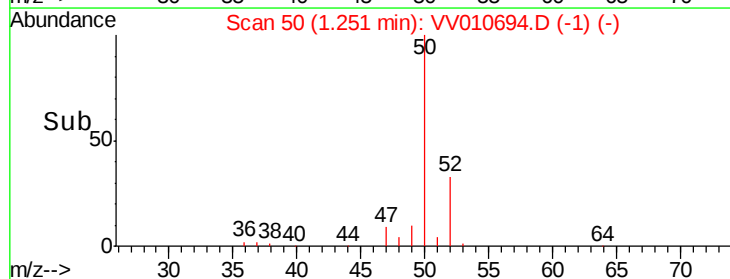
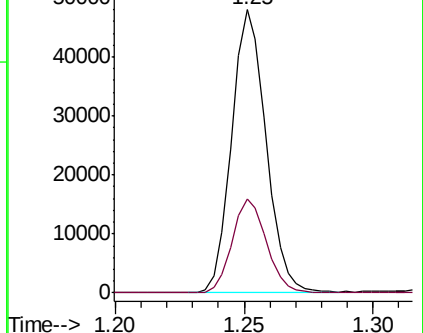
50 100

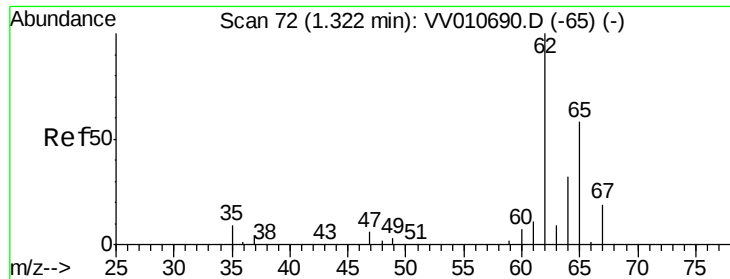
52 33.1 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV010690.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010690.D (-44) (-)





#5

Vinyl chloride

Concen: 25.028 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

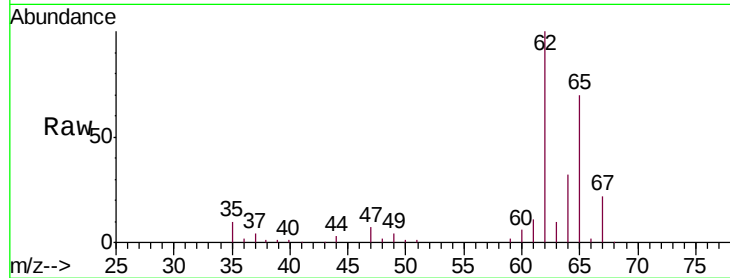
VSTD02586

Tgt Ion: 62 Resp: 53761

Ion Ratio Lower Upper

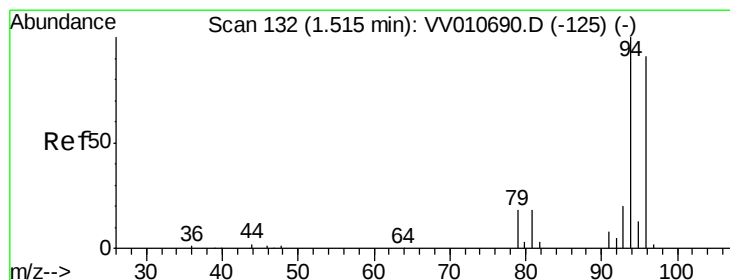
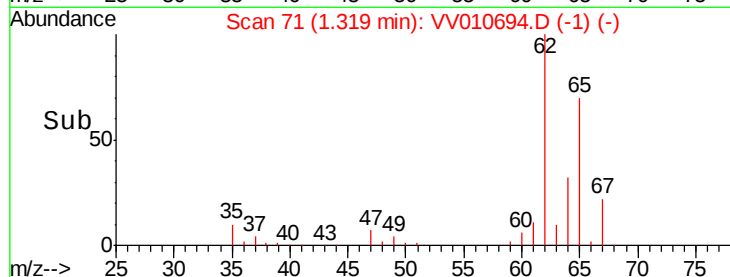
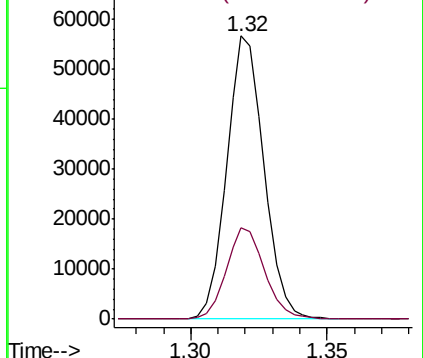
62 100

64 32.3 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 23.963 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.00 min

Lab File: VV010694.D

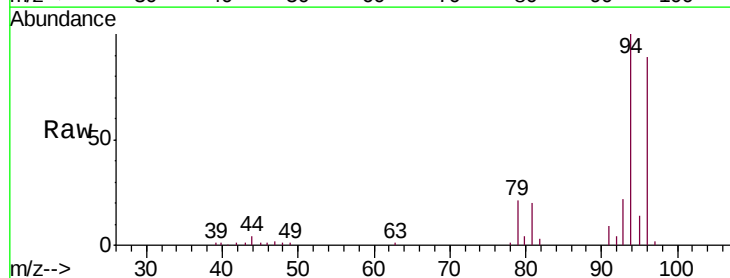
Acq: 07 May 2019 16:16

Tgt Ion: 94 Resp: 24963

Ion Ratio Lower Upper

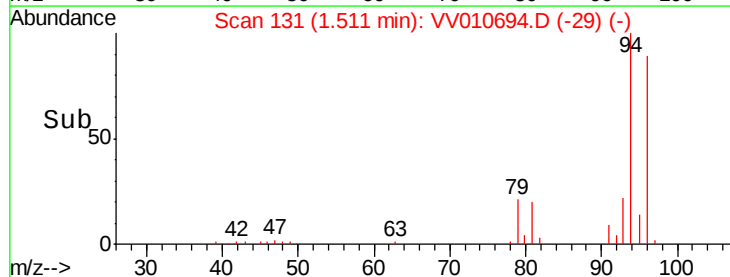
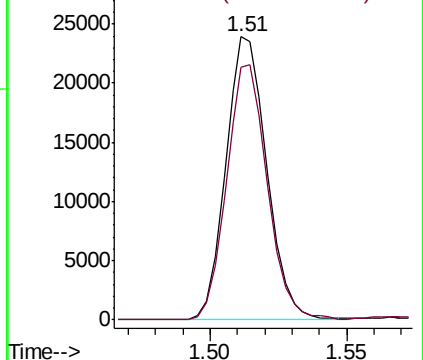
94 100

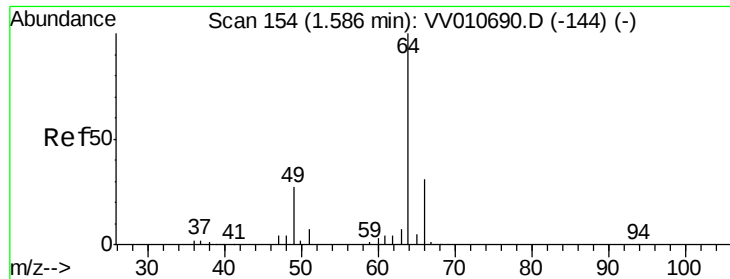
96 89.8 9.4 179.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 25.292 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

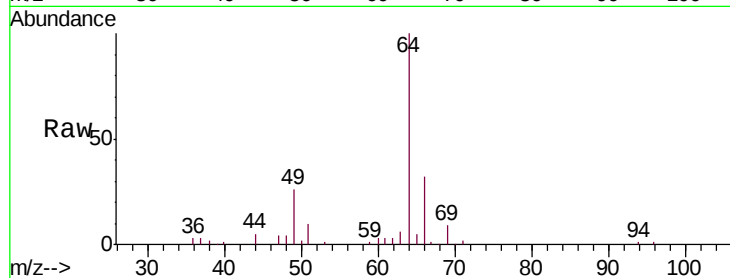
VSTD02586

Tgt Ion: 64 Resp: 33835

Ion Ratio Lower Upper

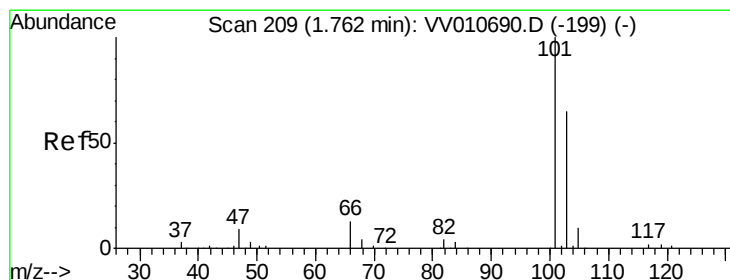
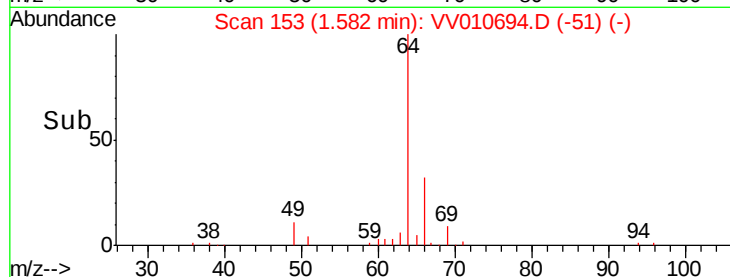
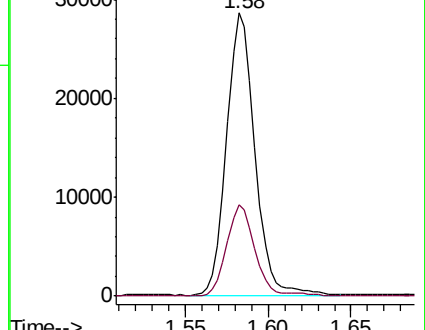
64 100

66 32.1 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV010690.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV010690.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 25.681 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV010694.D

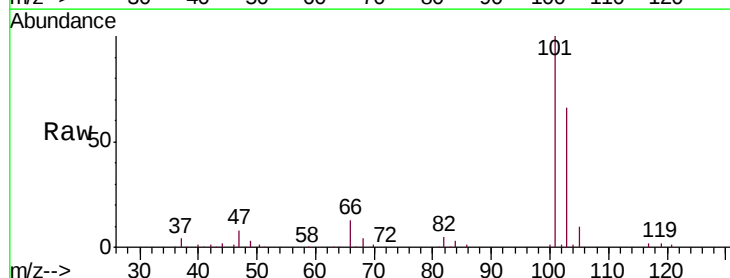
Acq: 07 May 2019 16:16

Tgt Ion: 101 Resp: 83041

Ion Ratio Lower Upper

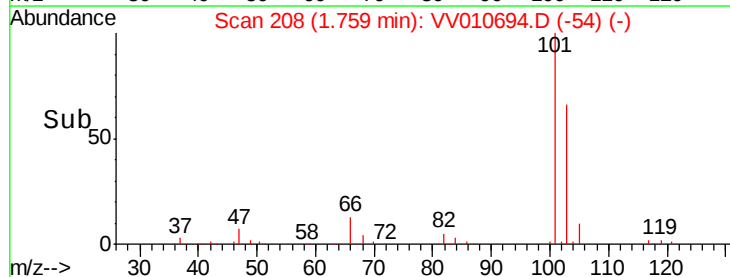
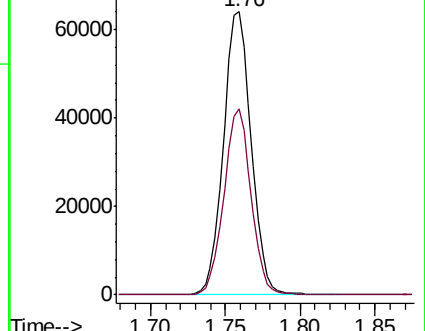
101 100

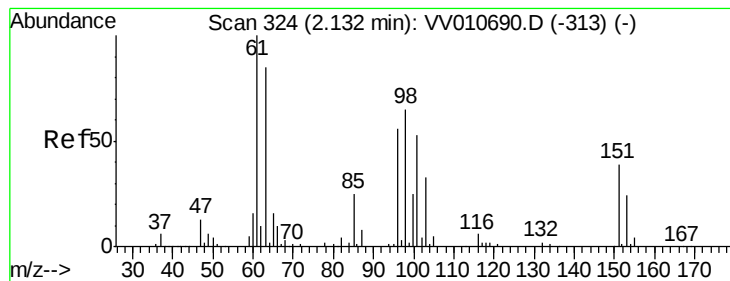
103 64.0 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010690.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV010690.D (-199) (-)





#11

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

Concen: 25.560 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

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ClientSampleId :

VSTD02586

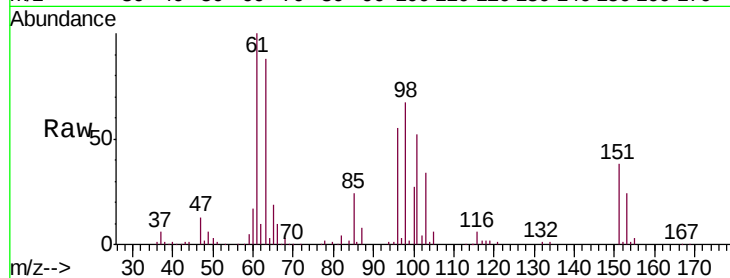
Tgt Ion:101 Resp: 47187

Ion Ratio Lower Upper

101 100

85 45.4 36.0 54.0

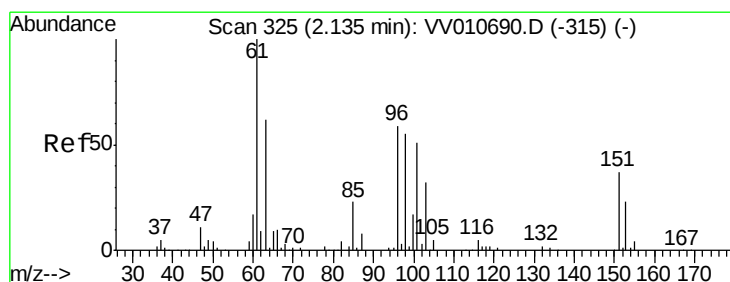
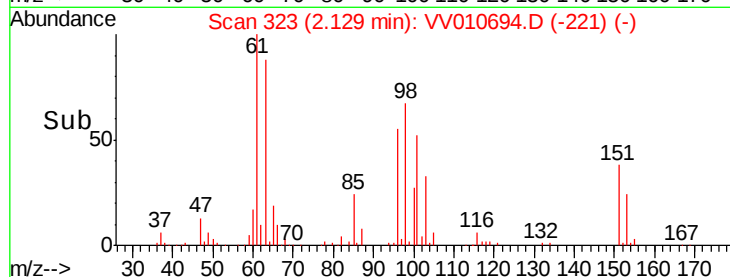
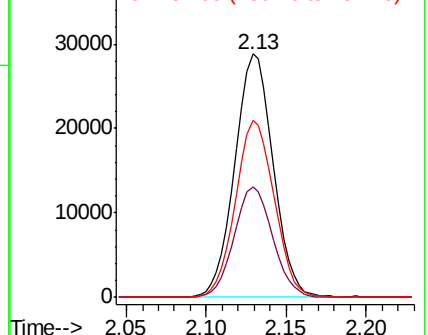
151 73.2 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.901 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

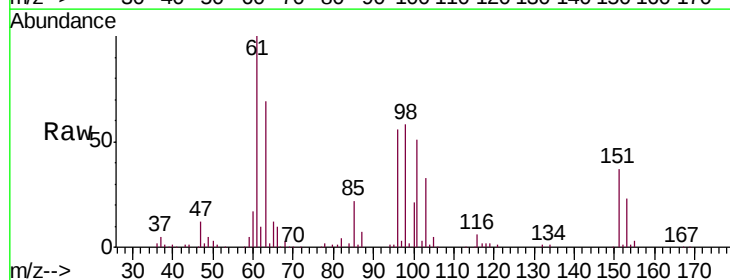
Tgt Ion: 96 Resp: 44774

Ion Ratio Lower Upper

96 100

61 178.1 120.3 223.3

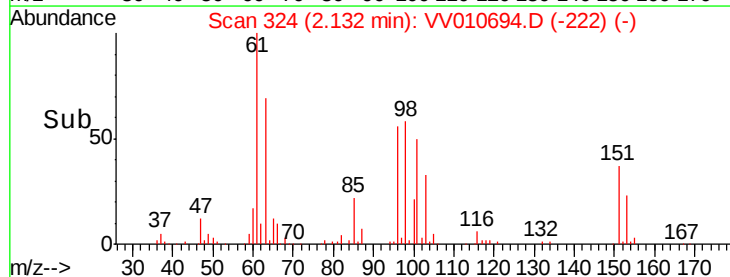
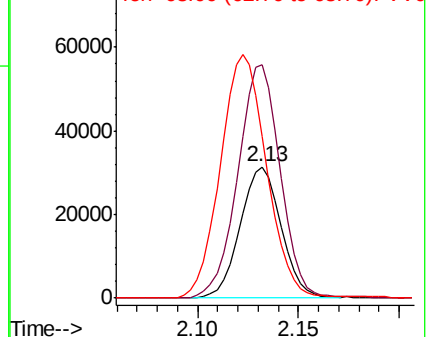
63 123.2 82.9 153.9

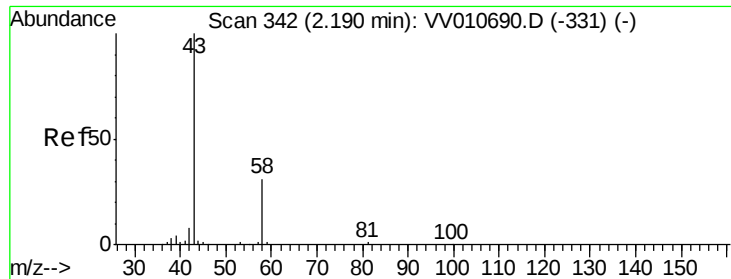


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 54.622 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

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MSVOA_V

ClientSampleId :

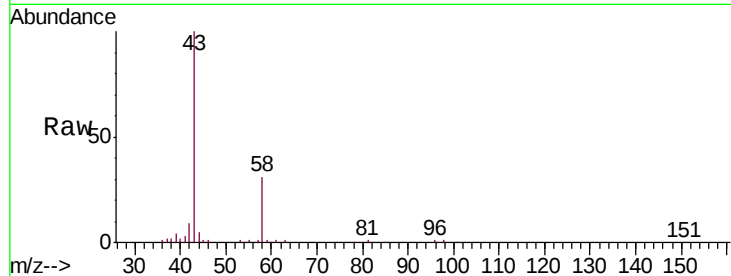
VSTD02586

Tgt Ion: 43 Resp: 43285

Ion Ratio Lower Upper

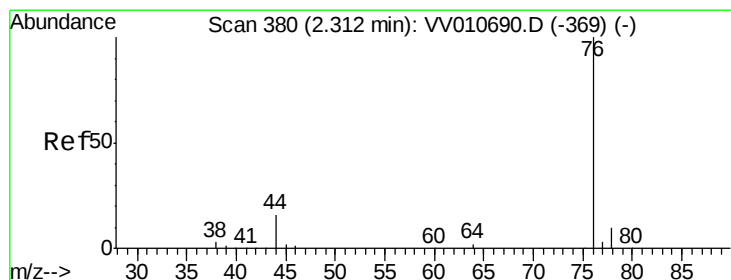
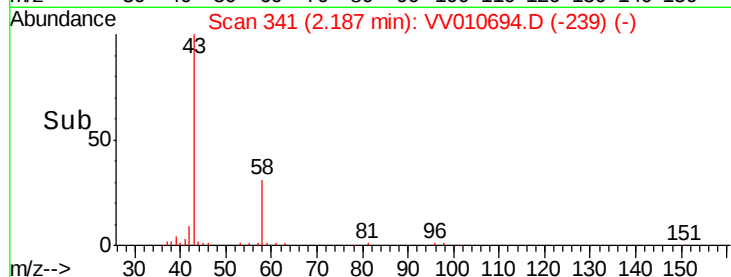
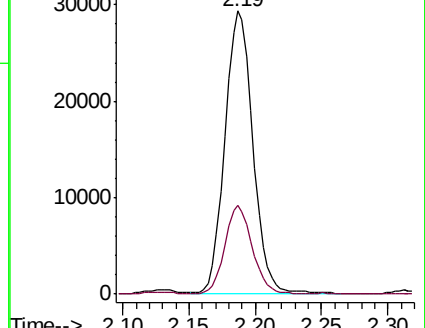
43 100

58 30.4 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VV010690.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010690.D (-331) (-)



#14

Carbon disulfide

Concen: 24.553 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV010694.D

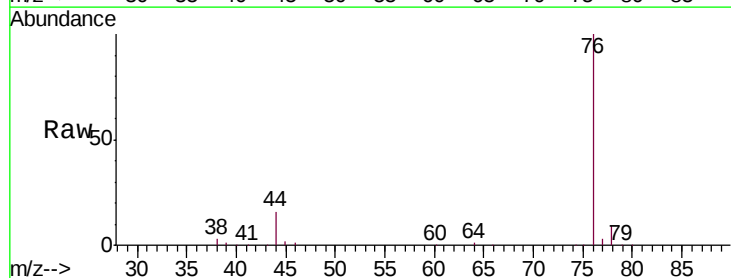
Acq: 07 May 2019 16:16

Tgt Ion: 76 Resp: 104304

Ion Ratio Lower Upper

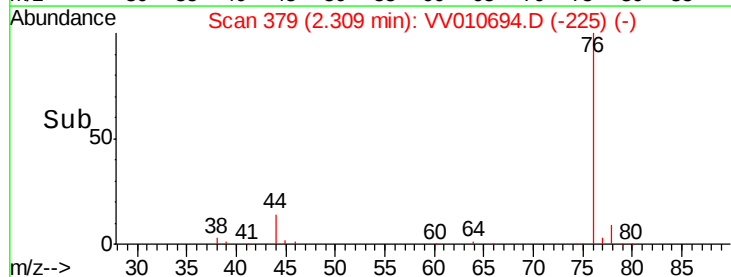
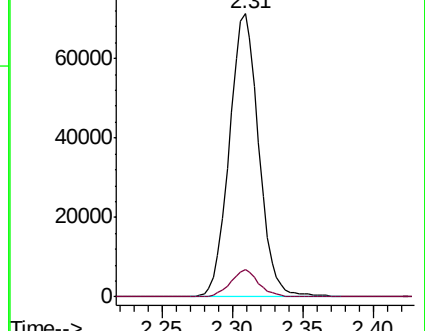
76 100

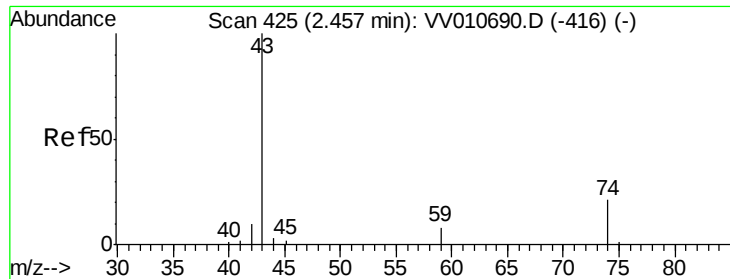
78 9.5 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VV010690.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010690.D (-369) (-)





#15

Methyl Acetate

Concen: 21.117 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleID :

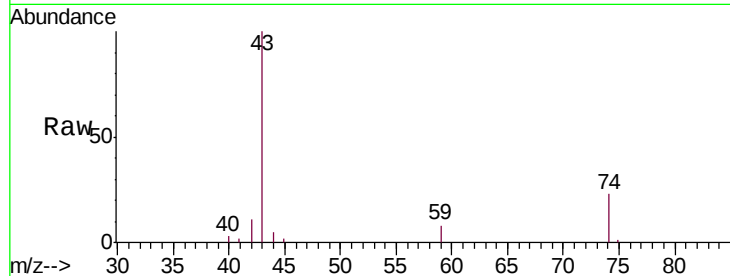
VSTD02586

Tgt Ion: 43 Resp: 19991

Ion Ratio Lower Upper

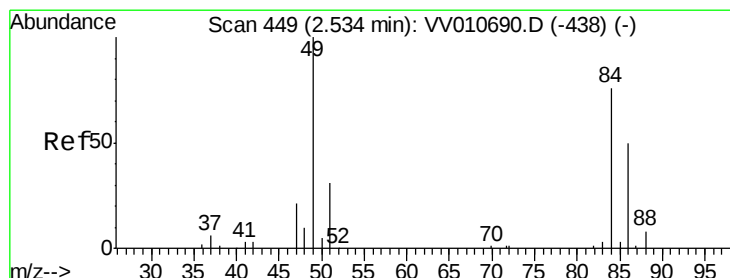
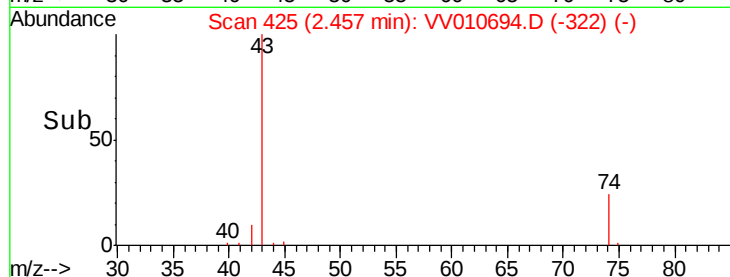
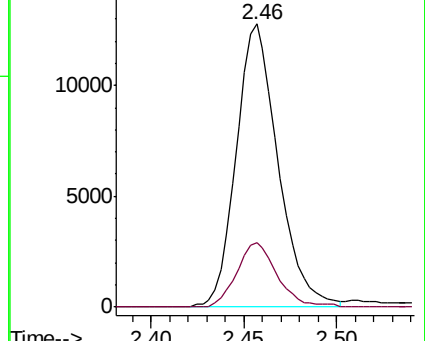
43 100

74 21.9 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VV010690.D (-416) (-)

Ion 74.00 (73.70 to 74.70): VV010690.D (-416) (-)



#16

Methylene chloride

Concen: 22.532 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

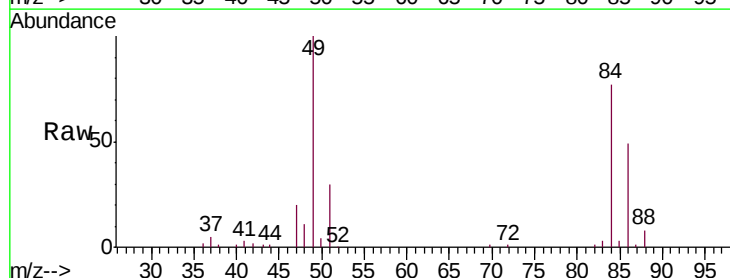
Tgt Ion: 84 Resp: 38254

Ion Ratio Lower Upper

84 100

49 130.3 92.9 172.5

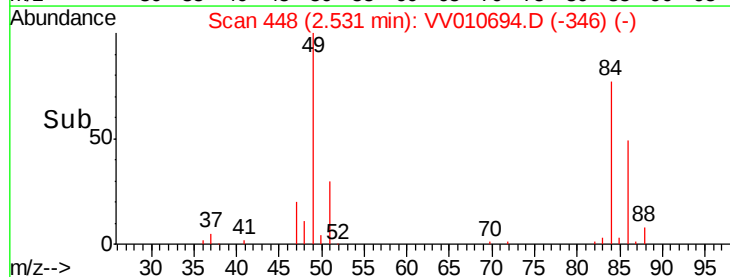
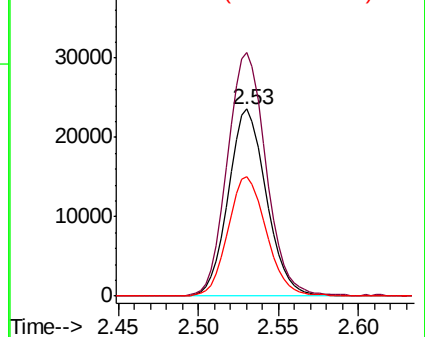
86 64.2 46.5 86.5

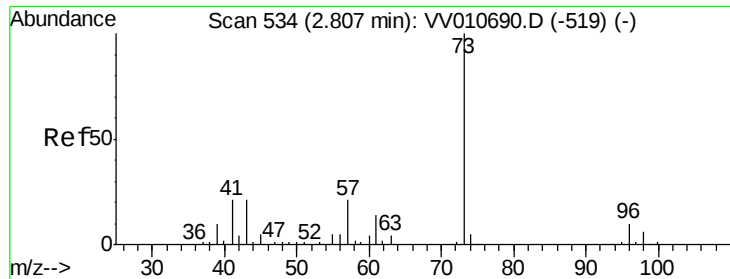


Abundance Ion 84.00 (83.70 to 84.70): VV010690.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV010690.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV010690.D (-438) (-)





#17

Methyl tert-butyl Ether

Concen: 23.701 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

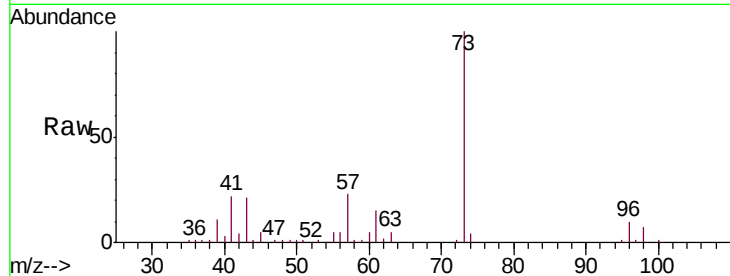
Tgt Ion: 73 Resp: 102593

Ion Ratio Lower Upper

73 100

43 20.8 16.6 25.0

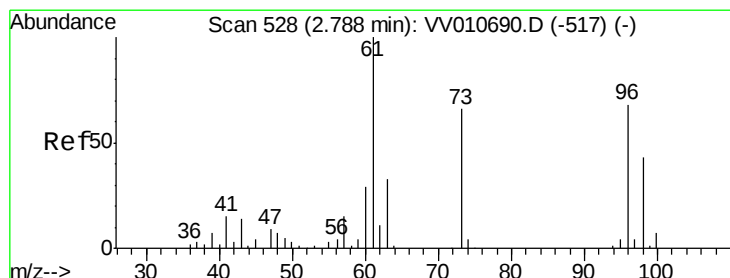
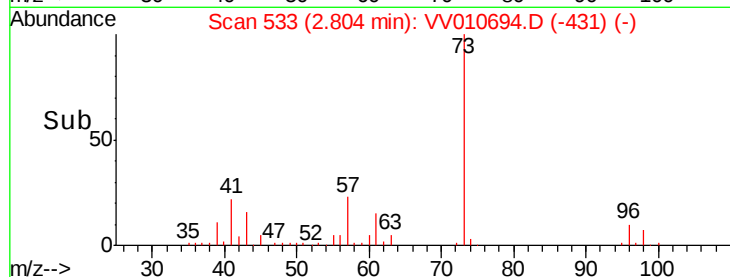
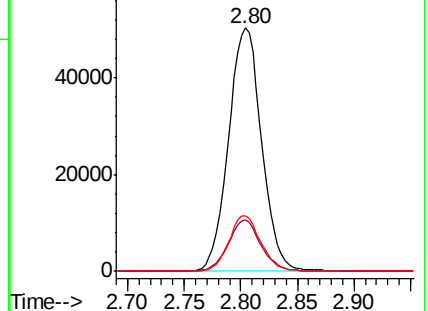
57 22.0 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VV010694.D (-519) (-)

Ion 43.00 (42.70 to 43.70): VV010694.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VV010694.D (-519) (-)



#18

trans-1,2-Dichloroethene

Concen: 24.267 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

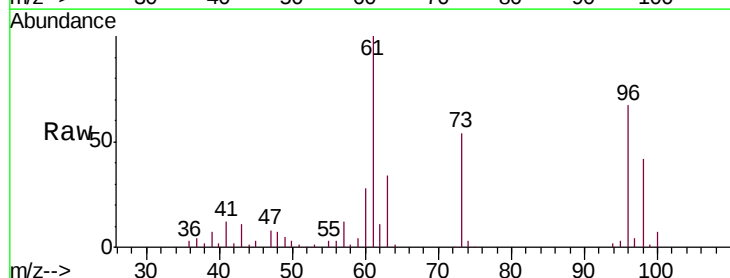
Tgt Ion: 96 Resp: 37919

Ion Ratio Lower Upper

96 100

61 148.7 102.8 190.8

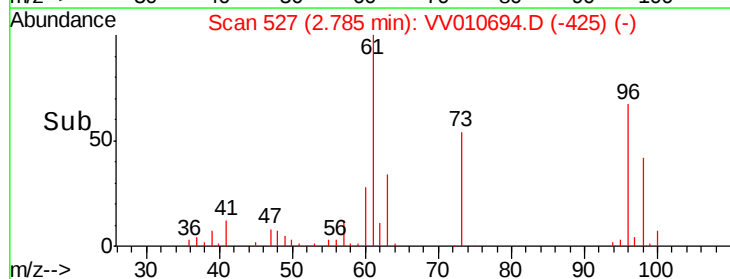
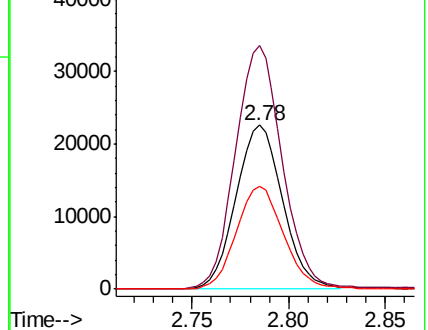
98 63.0 44.0 81.6

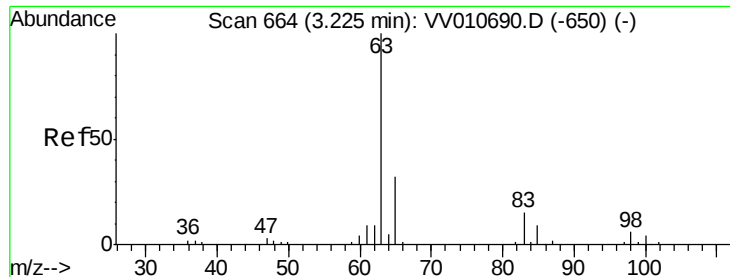


Abundance Ion 96.00 (95.70 to 96.70): VV010694.D (-517) (-)

Ion 61.00 (60.70 to 61.70): VV010694.D (-517) (-)

Ion 98.00 (97.70 to 98.70): VV010694.D (-517) (-)

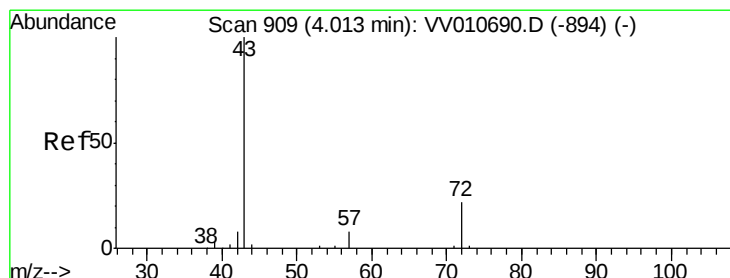
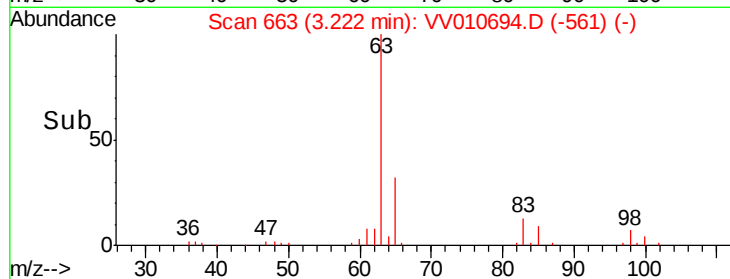
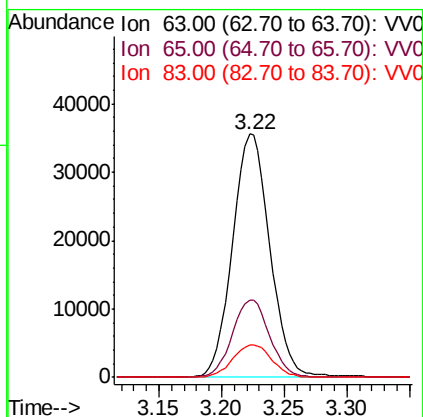
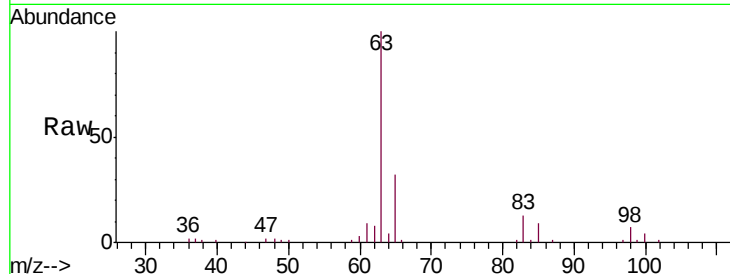




#19
 1,1-Dichloroethane
 Concen: 24.451 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

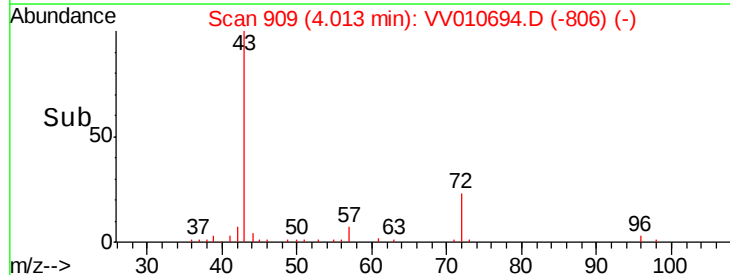
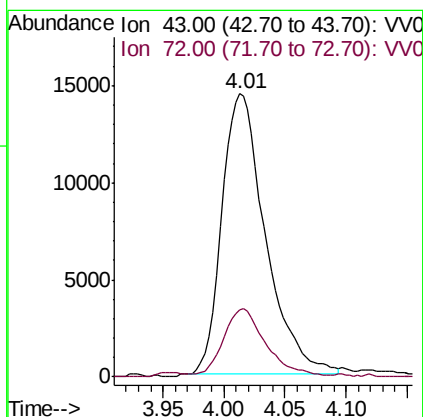
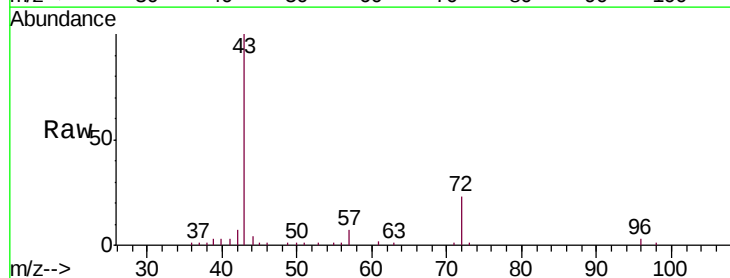
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

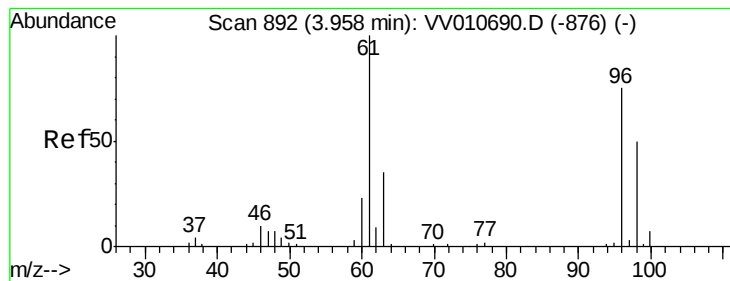
Tgt Ion: 63 Resp: 73759
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.5 41.7
 83 13.1 10.3 19.1



#21
 2-Butanone
 Concen: 47.945 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion: 43 Resp: 36009
 Ion Ratio Lower Upper
 43 100
 72 22.6 11.2 33.6



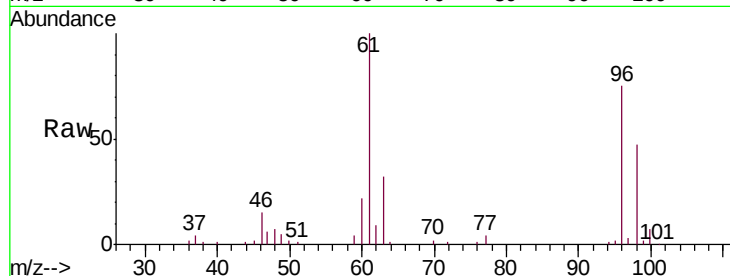


#22

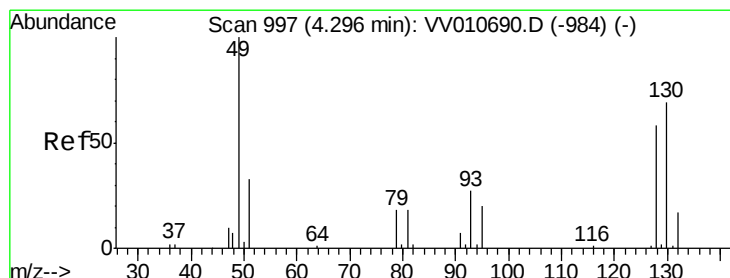
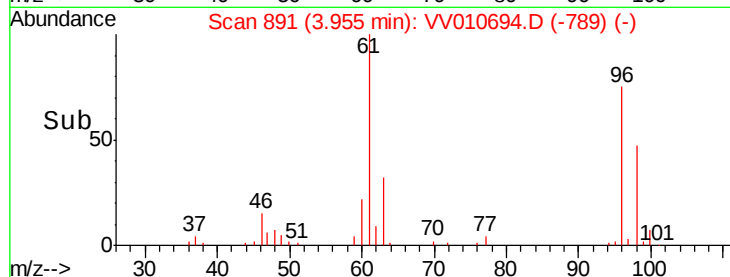
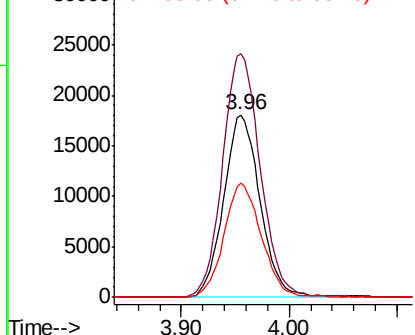
cis-1,2-Dichloroethene
 Concen: 23.755 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tgt Ion: 96 Resp: 42403
 Ion Ratio Lower Upper
 96 100
 61 133.3 93.9 174.5
 98 62.6 46.5 86.5



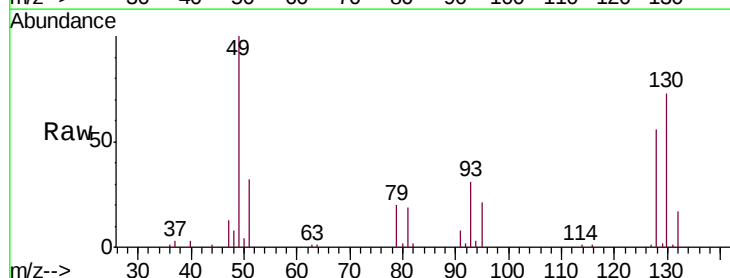
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



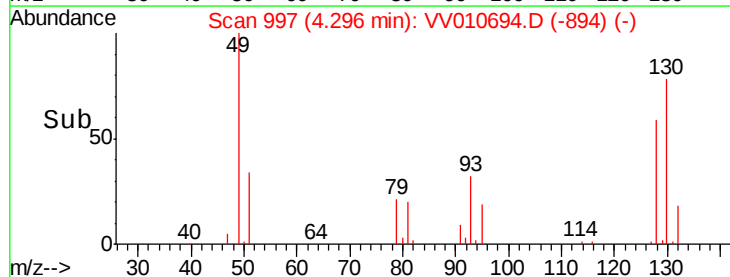
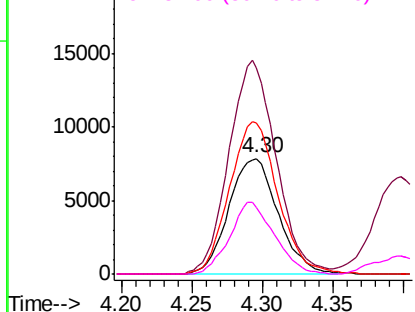
#23

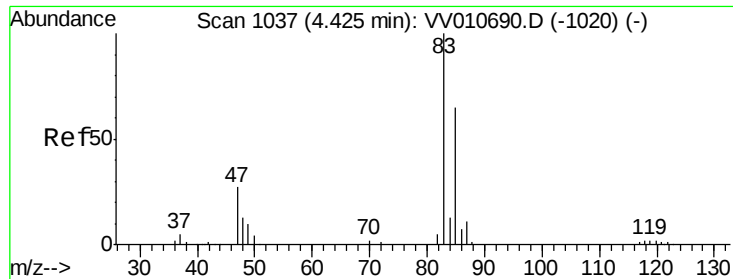
Bromochloromethane
 Concen: 23.891 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion: 128 Resp: 19170
 Ion Ratio Lower Upper
 128 100
 49 178.5 122.6 227.8
 130 130.5 84.0 156.0
 51 57.7 45.0 67.4



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

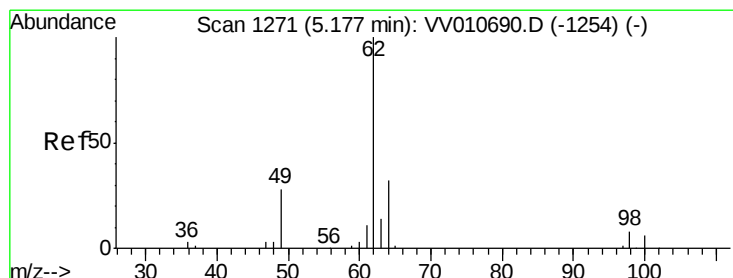
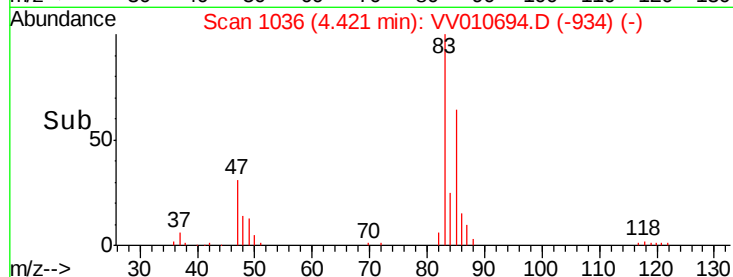
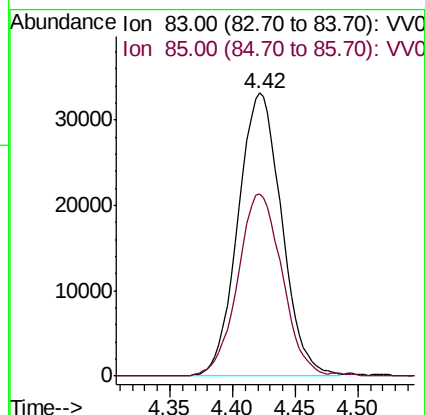
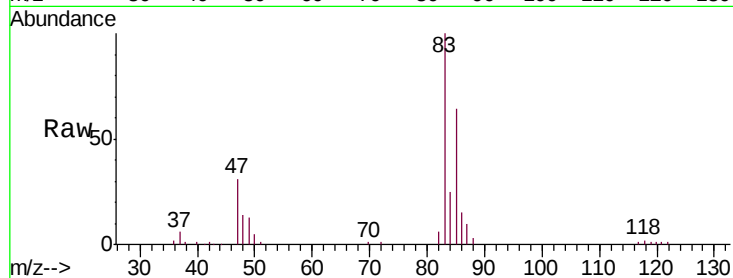




#25
Chloroform
Concen: 24.166 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

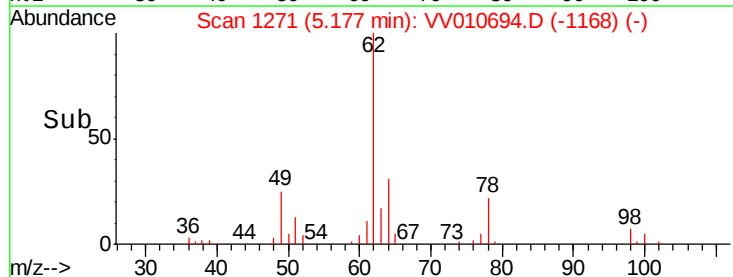
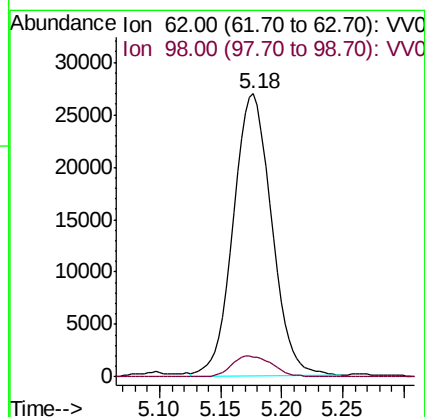
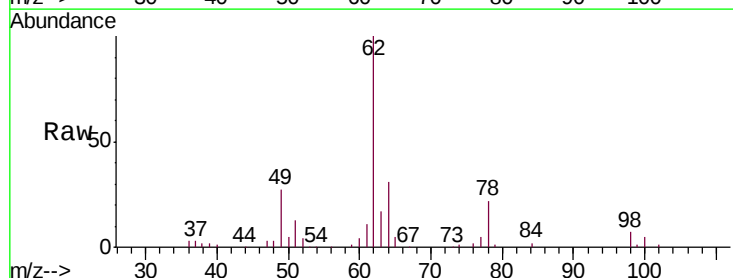
Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

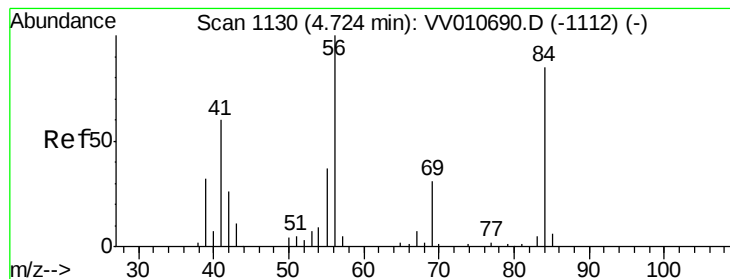
Tgt Ion: 83 Resp: 80309
Ion Ratio Lower Upper
83 100
85 65.3 44.6 82.8



#27
1,2-Dichloroethane
Concen: 24.100 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

Tgt Ion: 62 Resp: 58540
Ion Ratio Lower Upper
62 100
98 7.1 6.3 9.5





#30

Cyclohexane

Concen: 25.217 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.01 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

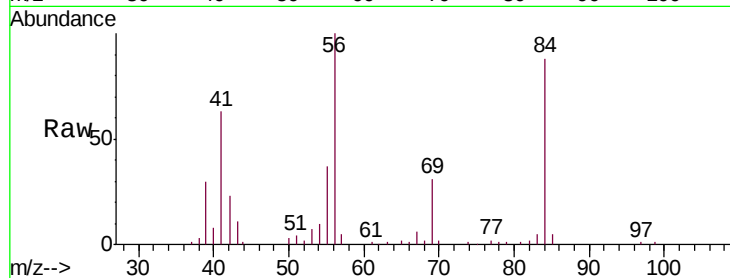
Tgt Ion: 56 Resp: 70832

Ion Ratio Lower Upper

56 100

69 31.1 24.2 36.4

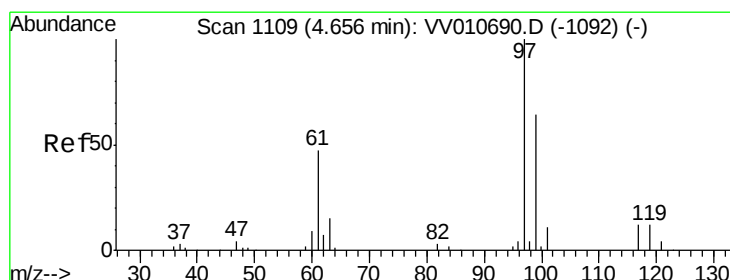
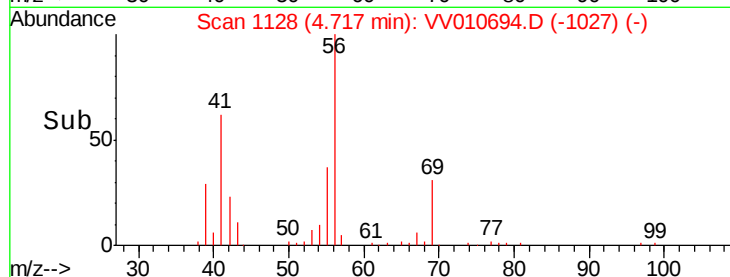
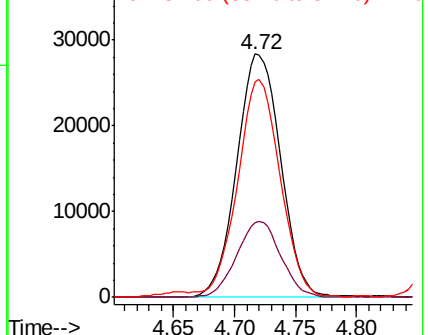
84 86.6 66.5 99.7



Abundance Ion 56.00 (55.70 to 56.70): VV010690.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV010690.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV010690.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 24.705 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

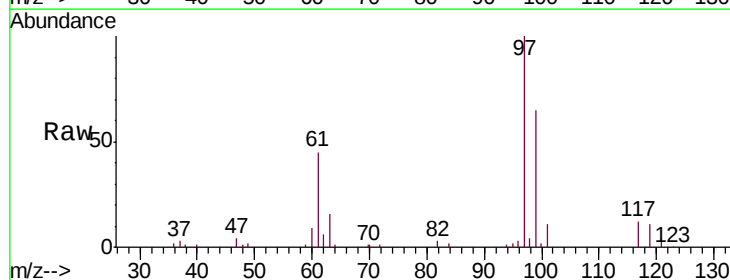
Tgt Ion: 97 Resp: 68987

Ion Ratio Lower Upper

97 100

99 64.9 50.2 75.2

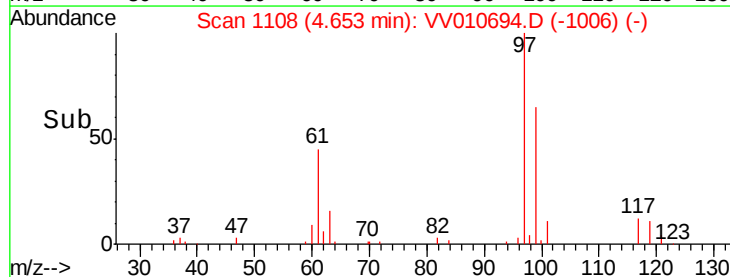
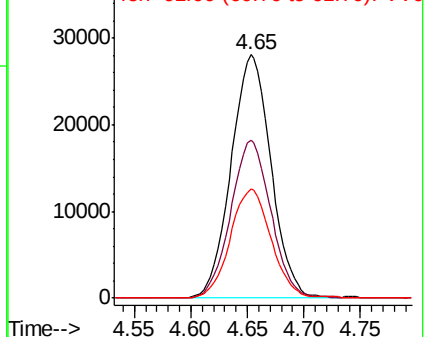
61 45.8 36.7 55.1

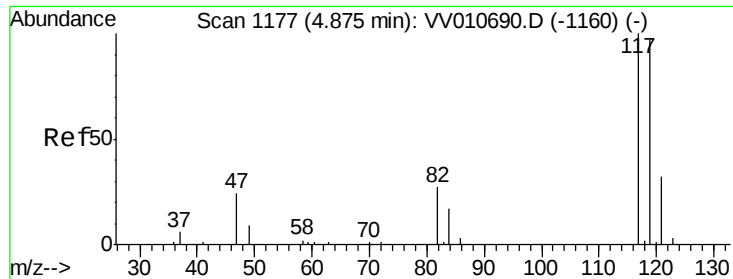


Abundance Ion 97.00 (96.70 to 97.70): VV010690.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV010690.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV010690.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 25.538 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

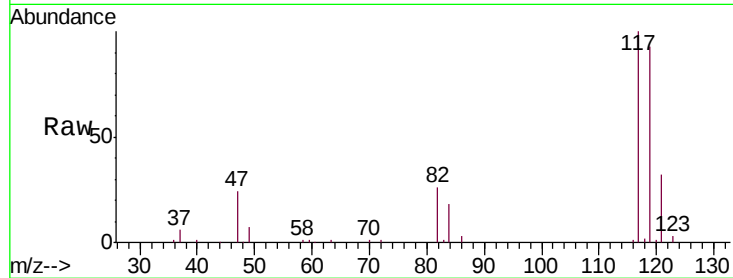
VSTD02586

Tgt Ion:117 Resp: 62118

Ion Ratio Lower Upper

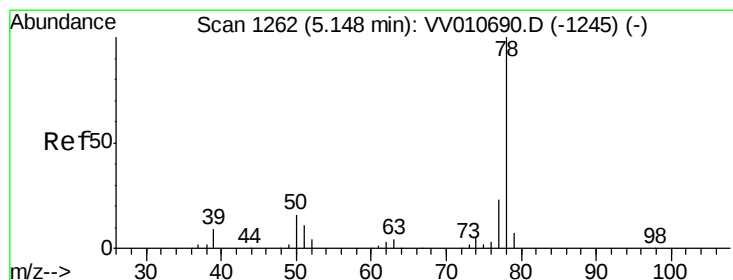
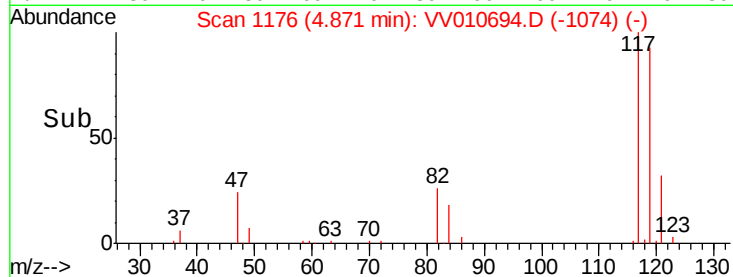
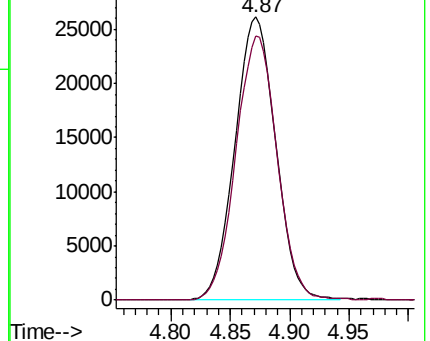
117 100

119 93.9 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.665 ug/L

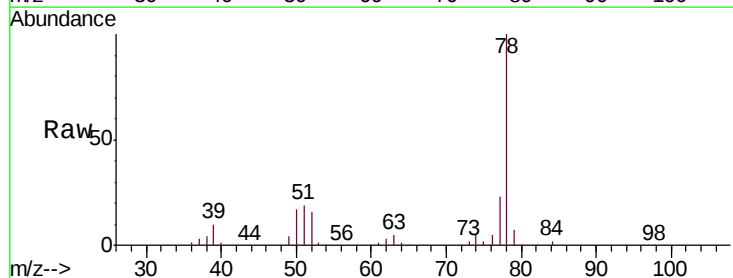
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

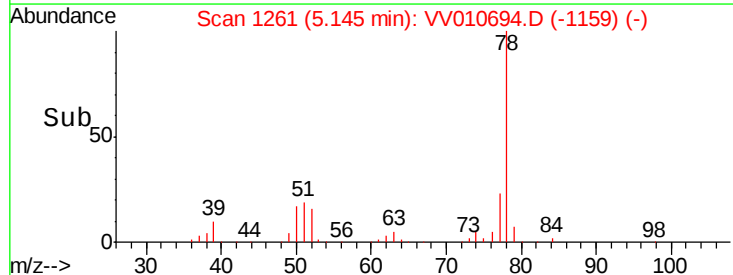
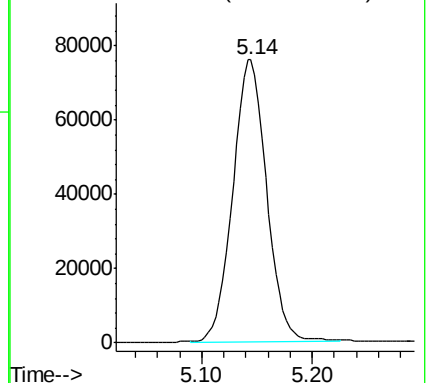
Lab File: VV010694.D

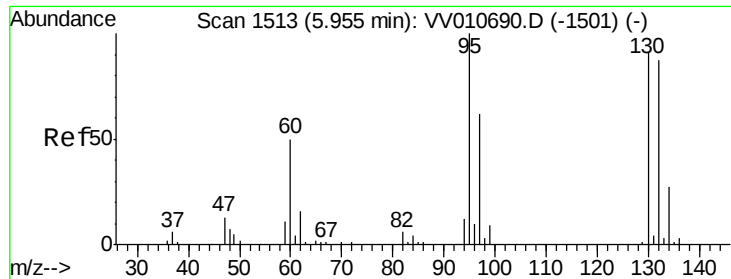
Acq: 07 May 2019 16:16

Tgt Ion: 78 Resp: 162160



Abundance Ion 78.00 (77.70 to 78.70): VV0

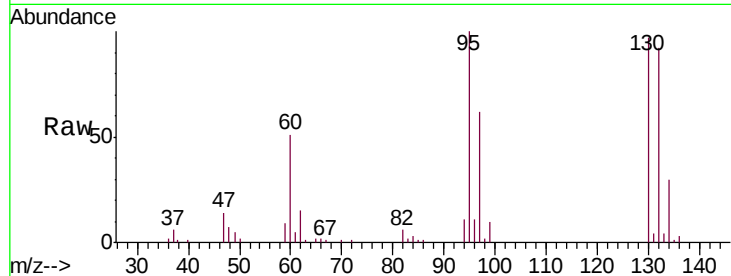




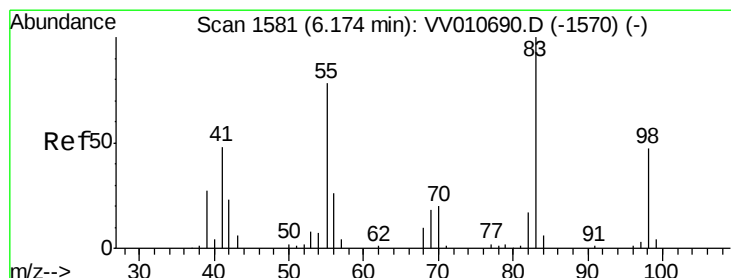
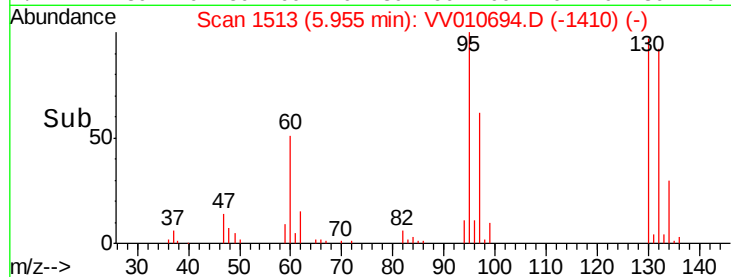
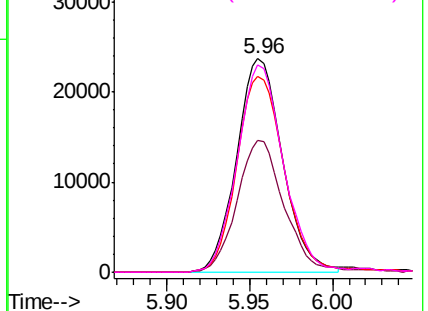
#35
 Trichloroethene
 Concen: 24.794 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tgt Ion:	95	Resp:	45660
Ion	Ratio	Lower	Upper
95	100		
97	62.9	44.3	82.3
132	94.0	62.4	115.8
130	97.4	68.5	127.3

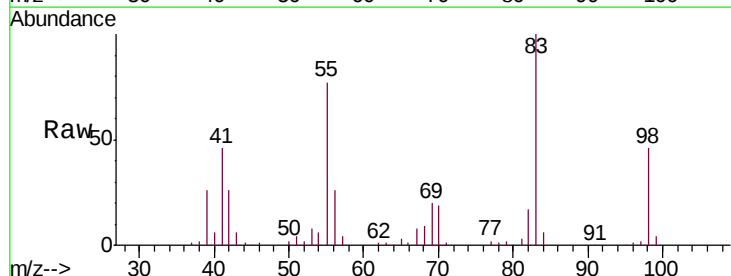


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

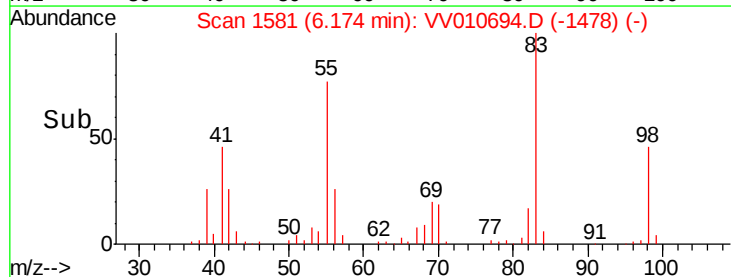
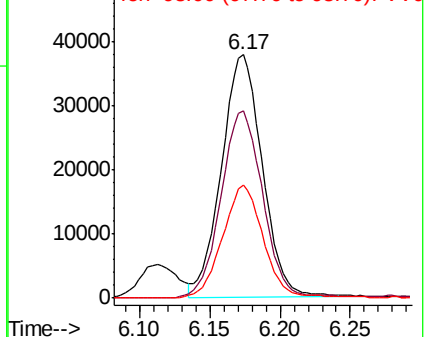


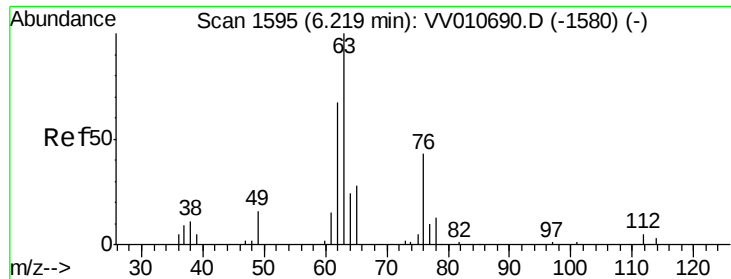
#36
 Methylcyclohexane
 Concen: 25.967 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion:	83	Resp:	76642
Ion	Ratio	Lower	Upper
83	100		
55	78.2	64.6	96.8
98	45.9	37.7	56.5



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

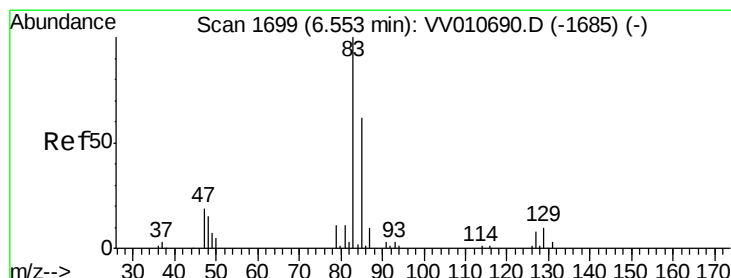
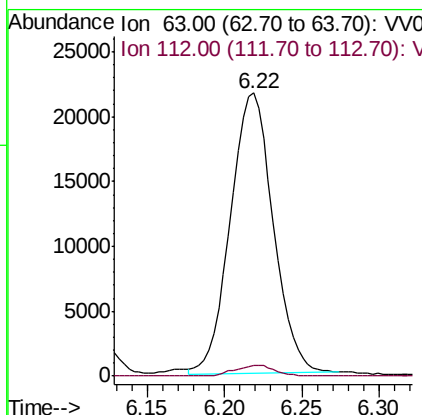
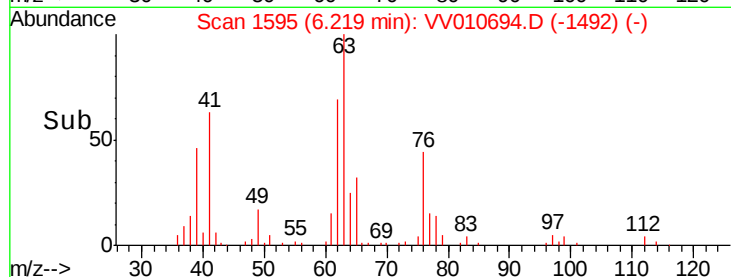
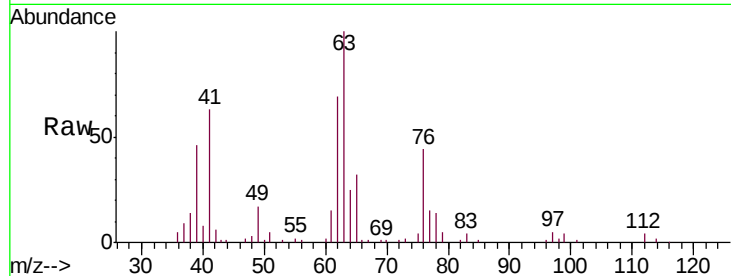




#40
 1,2-Dichloropropane
 Concen: 23.761 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

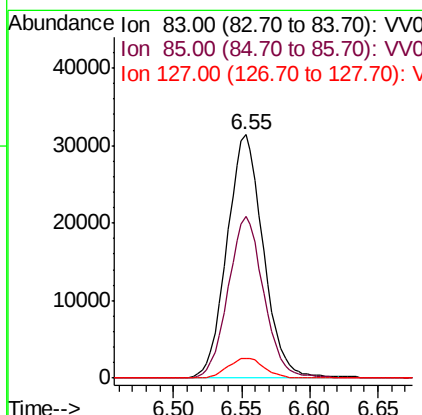
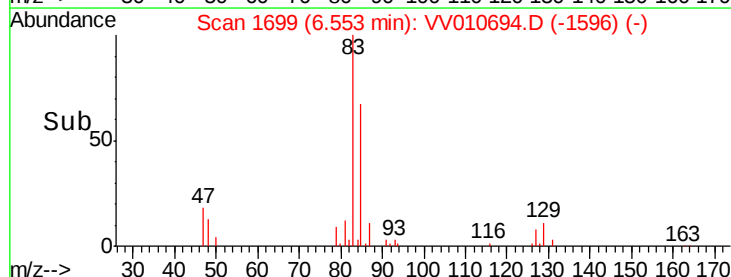
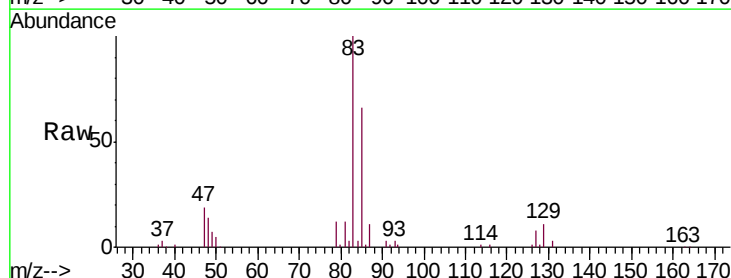
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

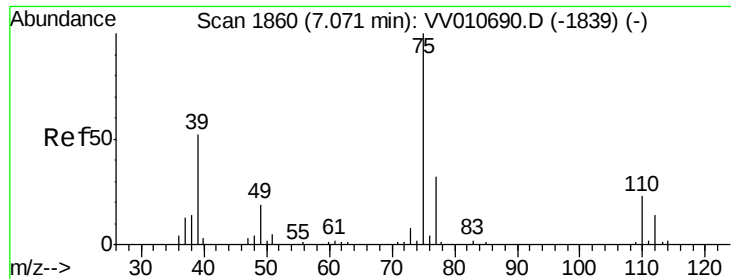
Tgt Ion: 63 Resp: 41557
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.4 5.2



#41
 Bromodichloromethane
 Concen: 24.140 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion: 83 Resp: 58011
 Ion Ratio Lower Upper
 83 100
 85 66.2 43.5 80.7
 127 8.2 6.2 9.4



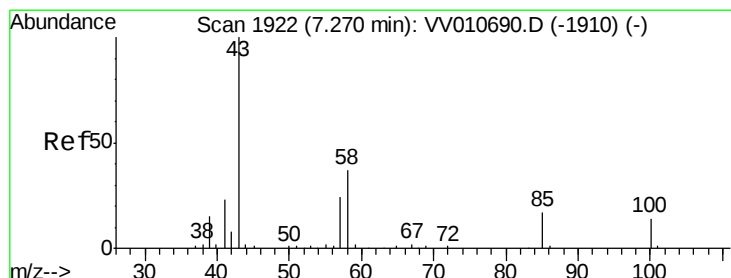
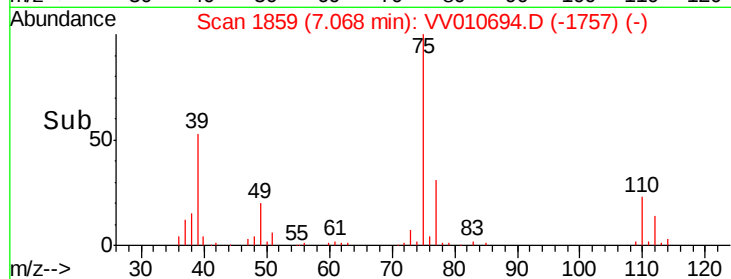
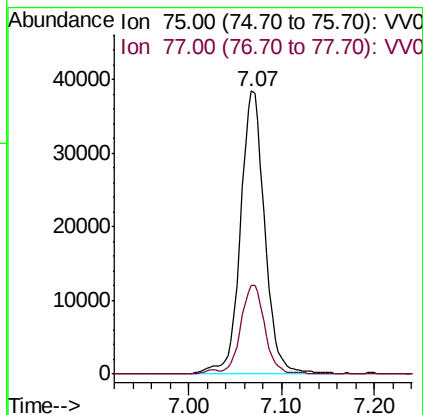
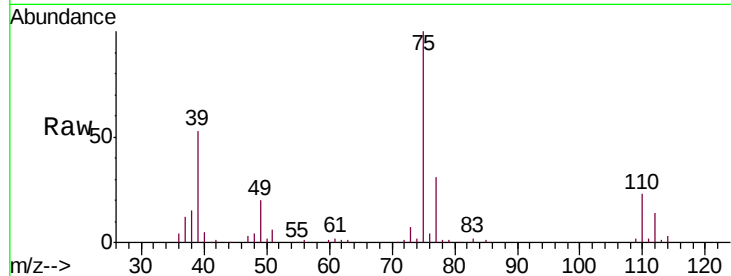


#42

cis-1,3-Dichloropropene
 Concen: 25.311 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

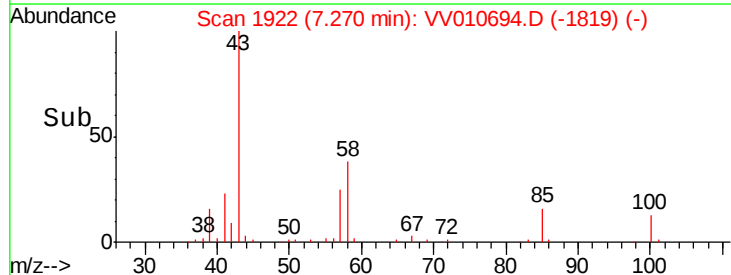
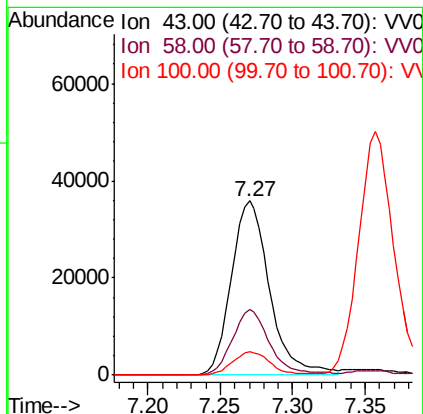
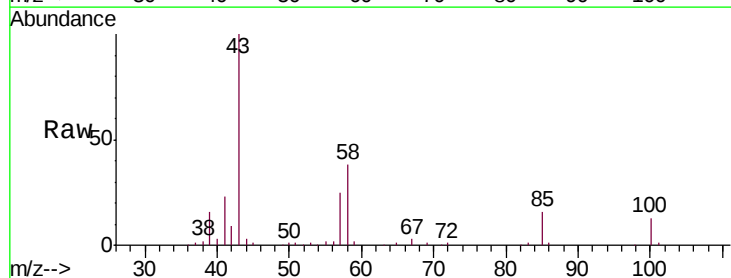
Tgt Ion: 75 Resp: 70018
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.3 41.3

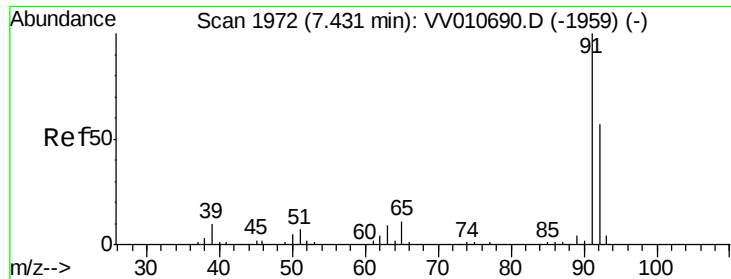


#43

4-Methyl-2-pentanone
 Concen: 44.838 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion: 43 Resp: 66009
 Ion Ratio Lower Upper
 43 100
 58 36.4 28.1 42.1
 100 13.2 11.0 16.6





#44

Toluene

Concen: 25.282 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

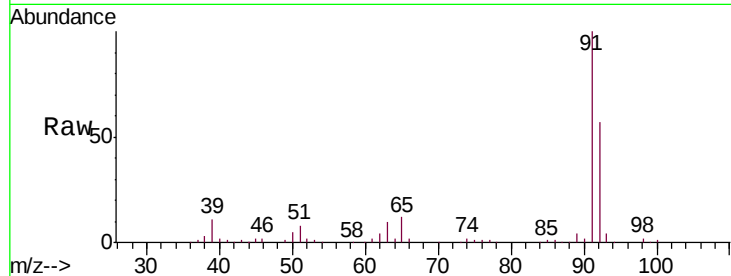
VSTD02586

Tgt Ion: 91 Resp: 188781

Ion Ratio Lower Upper

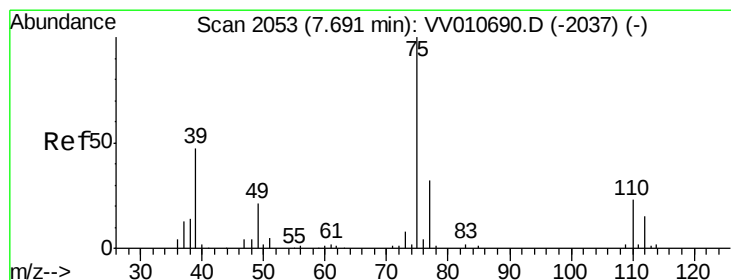
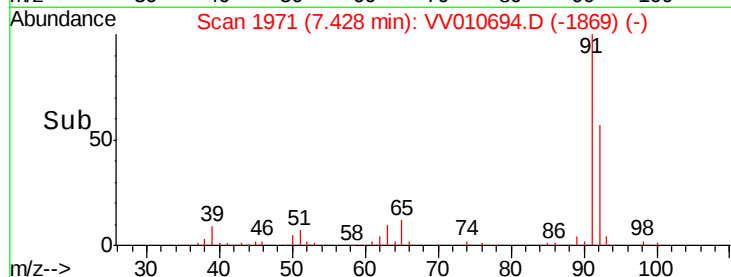
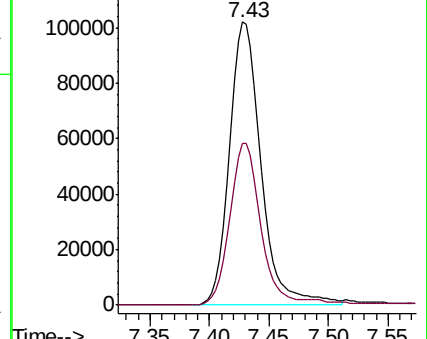
91 100

92 57.1 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV010694.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV010694.D (-1959) (-)



#45

trans-1,3-Dichloropropene

Concen: 24.674 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010694.D

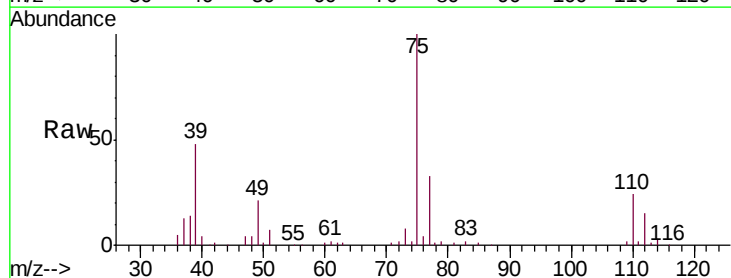
Acq: 07 May 2019 16:16

Tgt Ion: 75 Resp: 57474

Ion Ratio Lower Upper

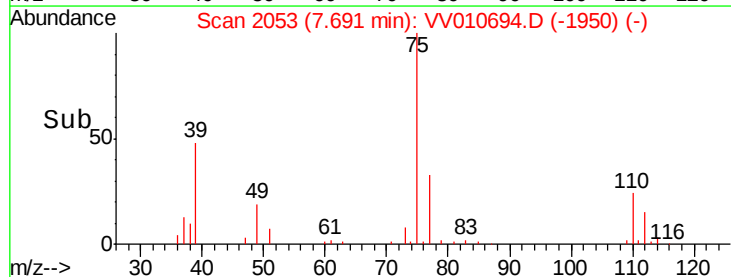
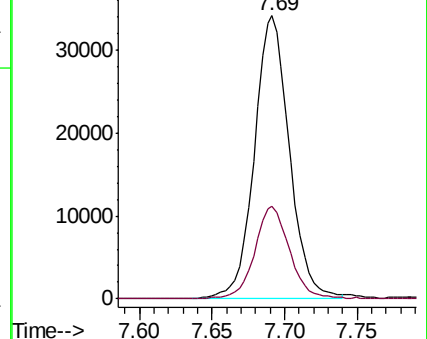
75 100

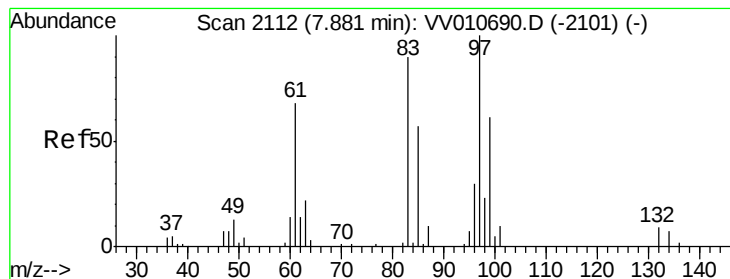
77 32.5 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VV010694.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV010694.D (-1950) (-)





#46

1,1,2-Trichloroethane

Concen: 23.270 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

Tgt Ion: 97 Resp: 33434

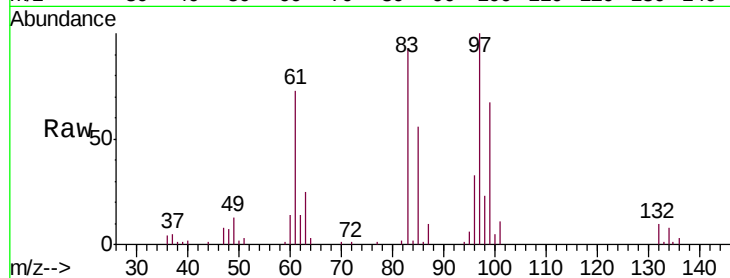
Ion Ratio Lower Upper

97 100

83 93.0 62.8 116.6

85 56.4 40.2 74.6

99 67.0 42.6 79.0



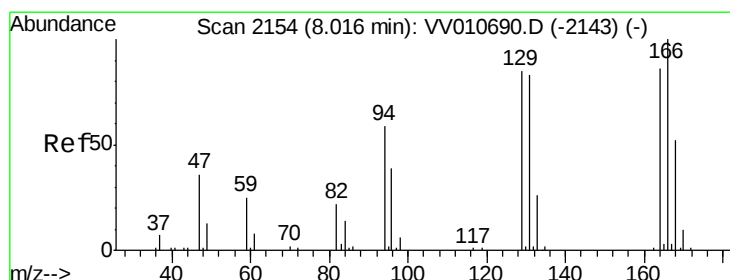
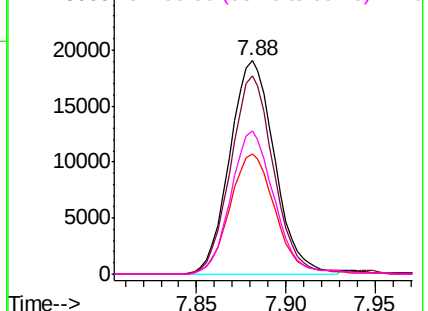
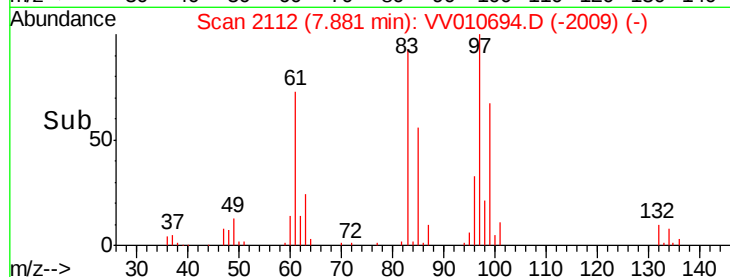
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 25.432 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Tgt Ion: 164 Resp: 33919

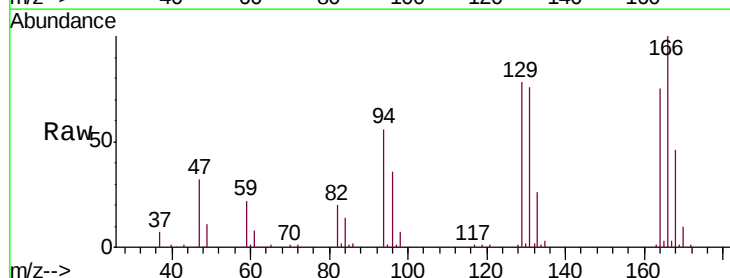
Ion Ratio Lower Upper

164 100

129 104.3 69.3 128.7

131 101.7 67.3 125.1

166 133.4 81.1 150.7



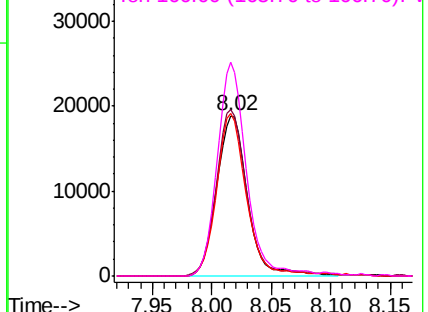
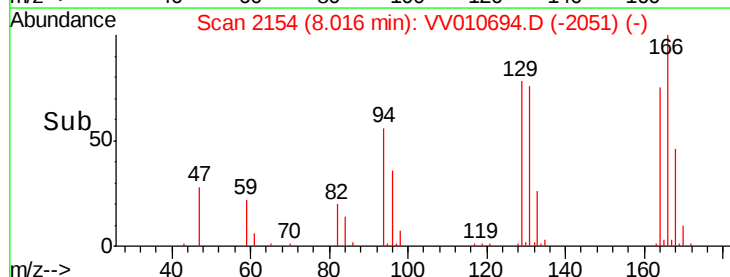
Abundance

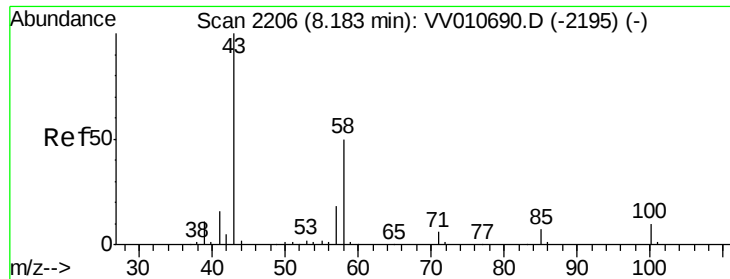
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

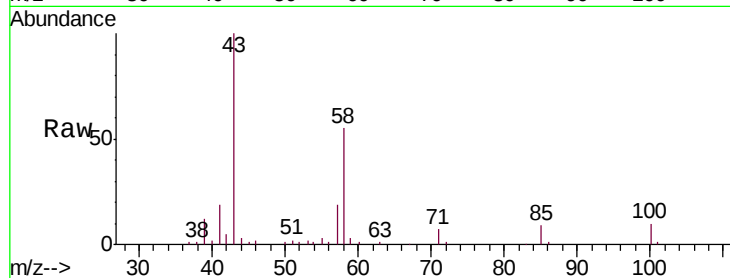




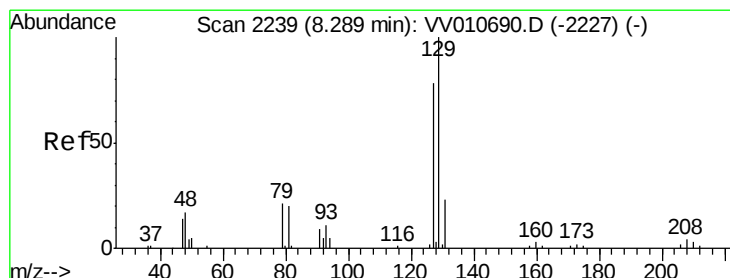
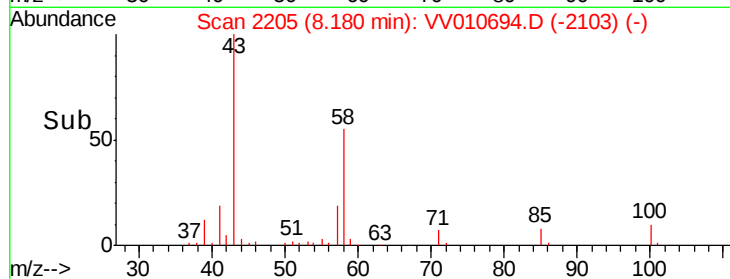
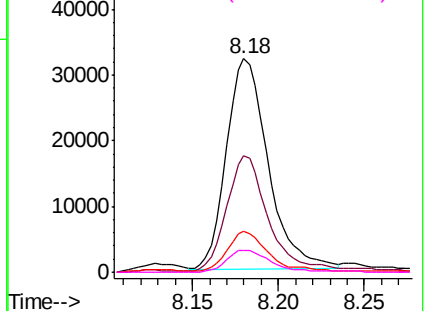
#49
2-Hexanone
Concen: 48.280 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

Tgt Ion:	43	Resp:	54039
Ion	Ratio	Lower	Upper
43	100		
58	52.5	39.4	59.0
57	16.9	14.2	21.4
100	11.2	8.2	12.2

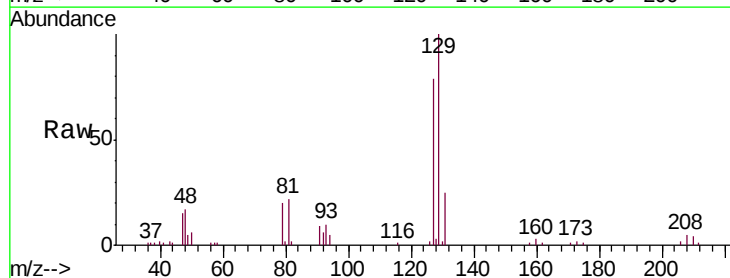


Abundance Ion 43.00 (42.70 to 43.70): VV010690.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV010690.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV010690.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV010690.D (-2195) (-)

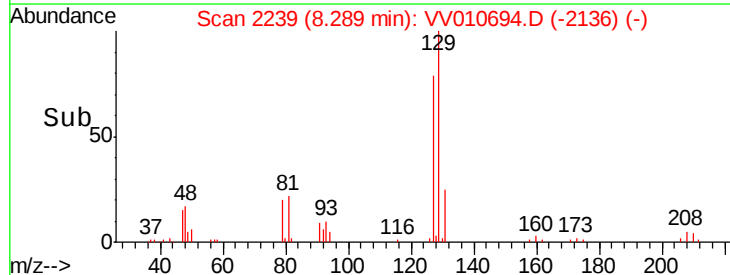
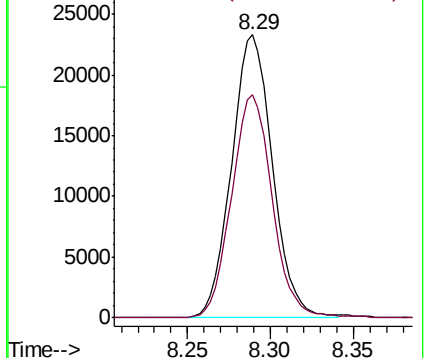


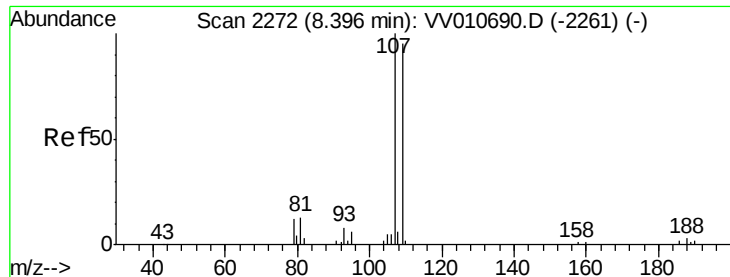
#50
Dibromochloromethane
Concen: 24.226 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

Tgt Ion:	129	Resp:	40027
Ion	Ratio	Lower	Upper
129	100		
127	78.9	54.5	101.1



Abundance Ion 129.00 (128.70 to 129.70): VV010690.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV010690.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 24.459 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

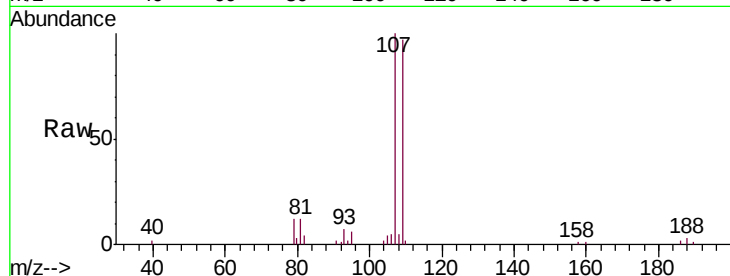
Tgt Ion:107 Resp: 33941

Ion Ratio Lower Upper

107 100

109 97.2 66.6 123.6

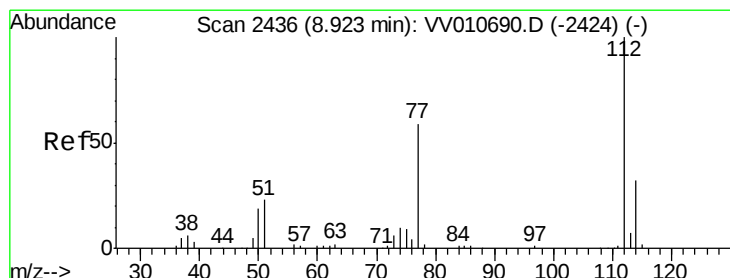
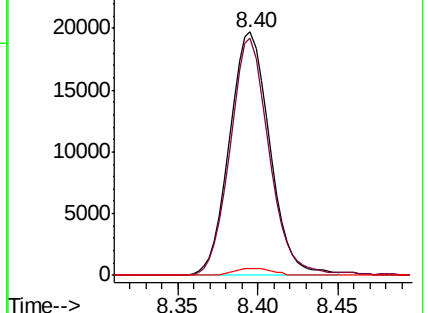
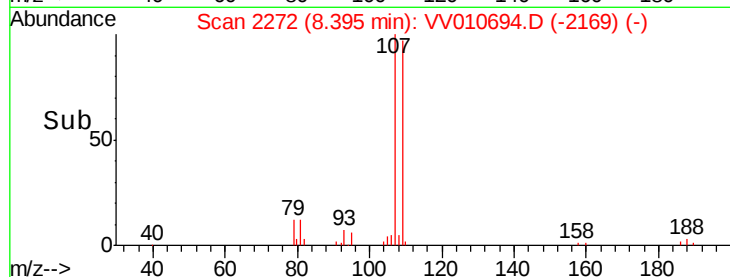
188 3.0 2.7 4.1



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: 25.153 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

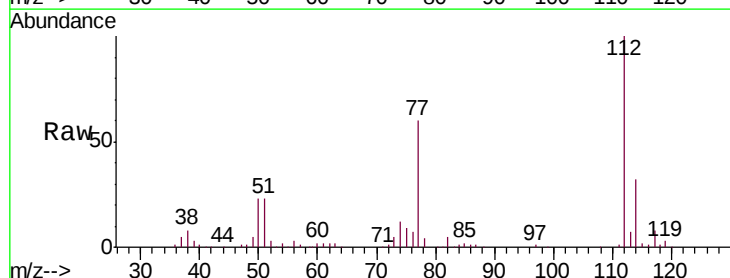
Tgt Ion:112 Resp: 122703

Ion Ratio Lower Upper

112 100

77 59.9 47.7 71.5

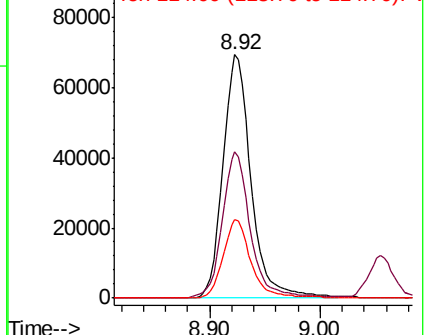
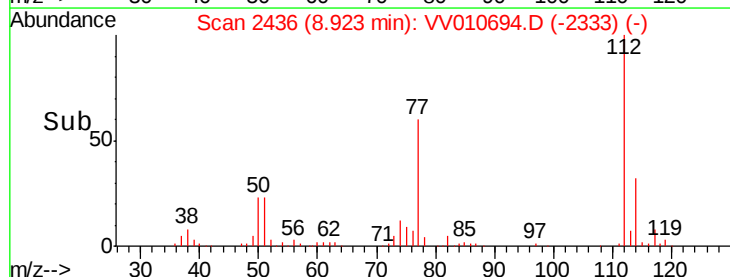
114 32.4 22.1 41.1

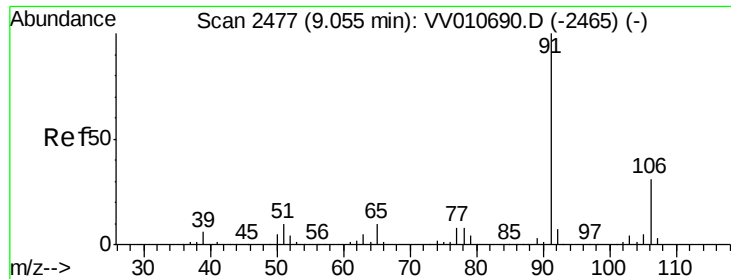


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.594 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

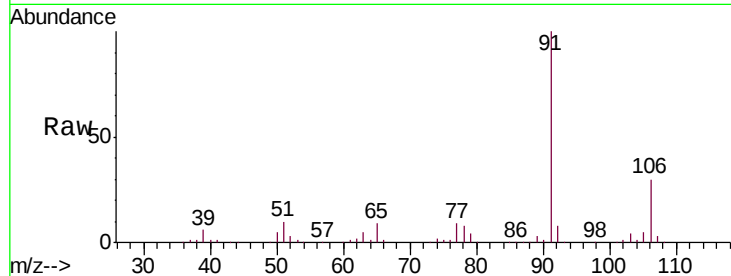
VSTD02586

Tgt Ion: 91 Resp: 221592

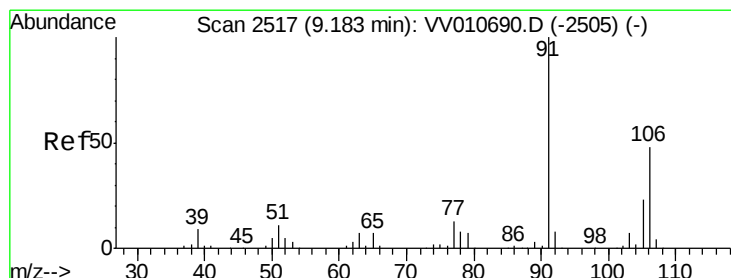
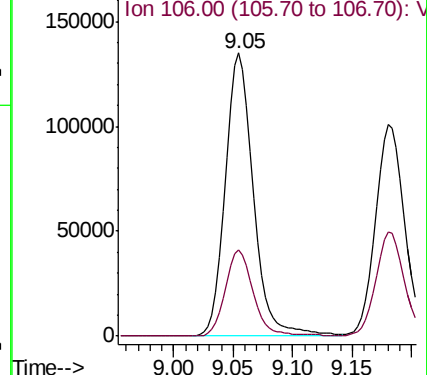
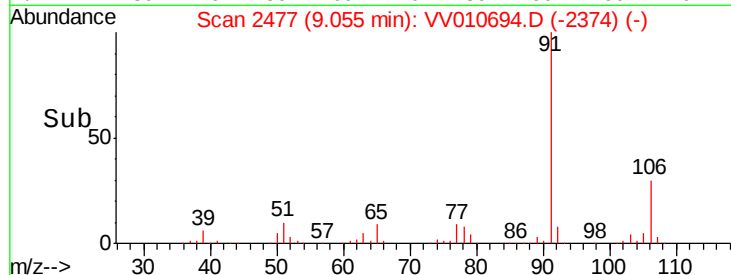
Ion Ratio Lower Upper

91 100

106 30.4 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV010694.D (-2374) (-)



#54

m,p-Xylene

Concen: 25.299 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010694.D

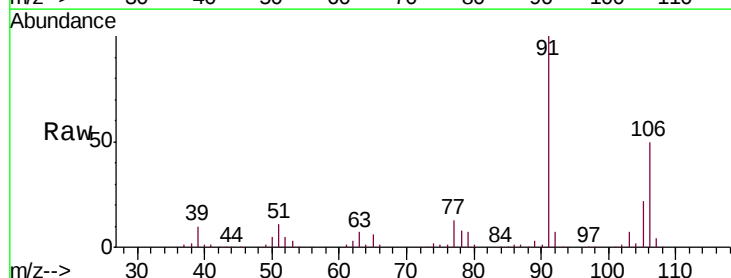
Acq: 07 May 2019 16:16

Tgt Ion: 106 Resp: 81833

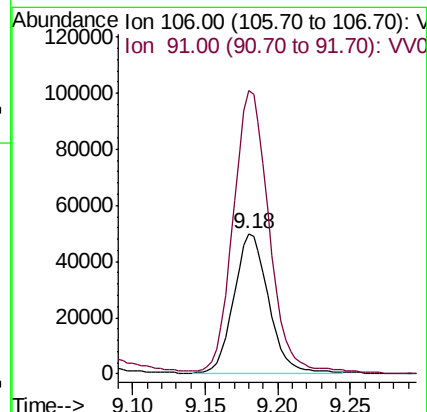
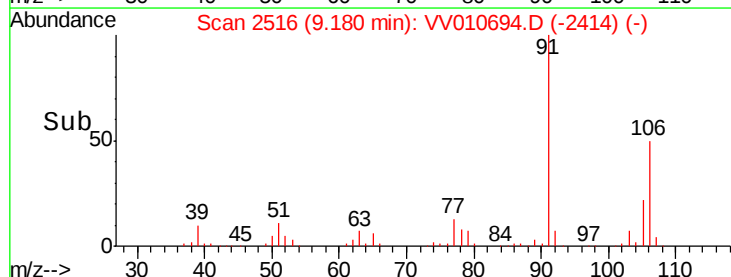
Ion Ratio Lower Upper

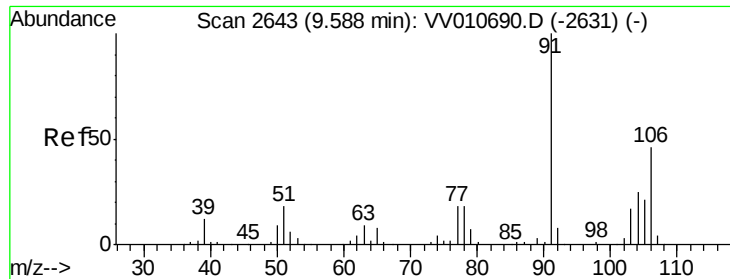
106 100

91 202.0 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV010694.D (-2414) (-)

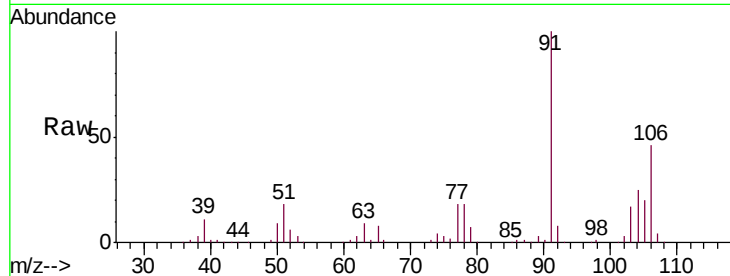




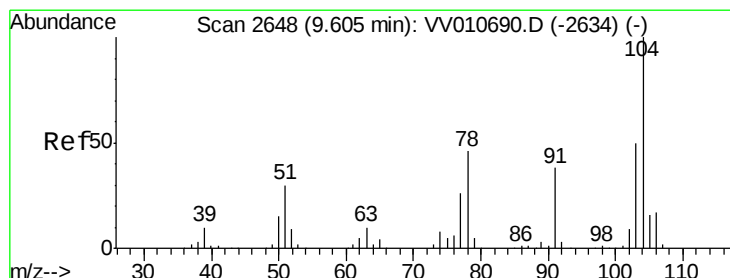
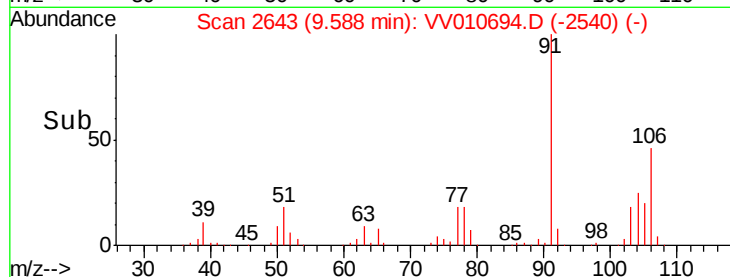
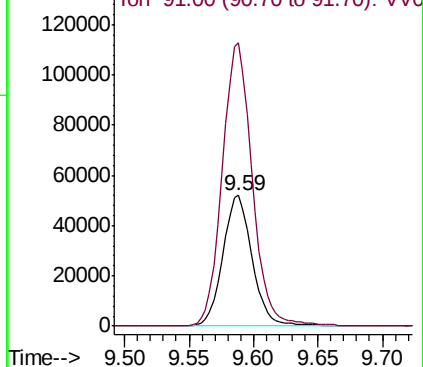
#55
o-xylene
Concen: 25.708 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

Tgt Ion:106 Resp: 82480
Ion Ratio Lower Upper
106 100
91 216.7 151.0 280.4

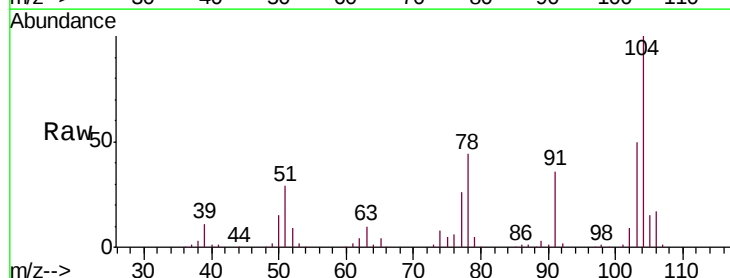


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

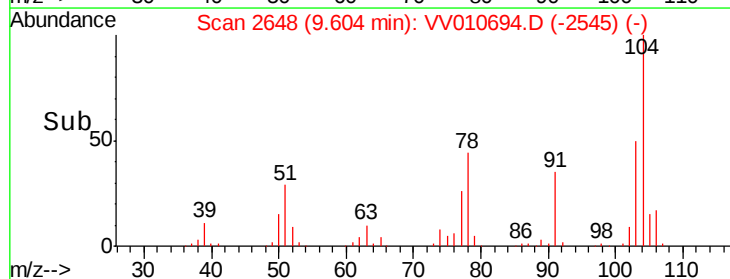
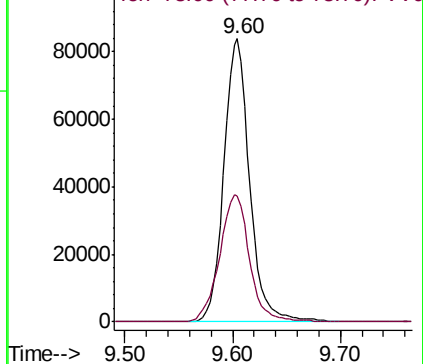


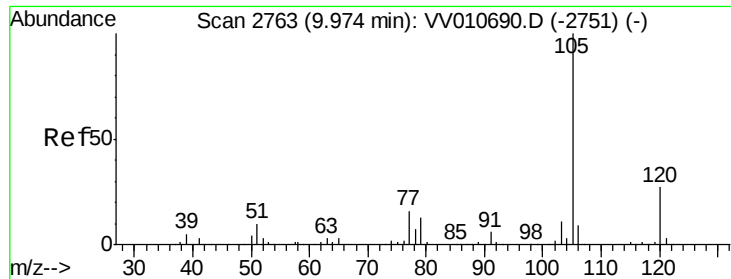
#56
Styrene
Concen: 25.652 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV010694.D
Acq: 07 May 2019 16:16

Tgt Ion:104 Resp: 139203
Ion Ratio Lower Upper
104 100
78 44.5 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.821 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

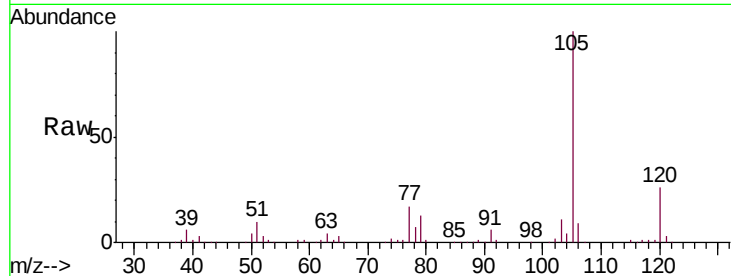
Tgt Ion: 105 Resp: 221036

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

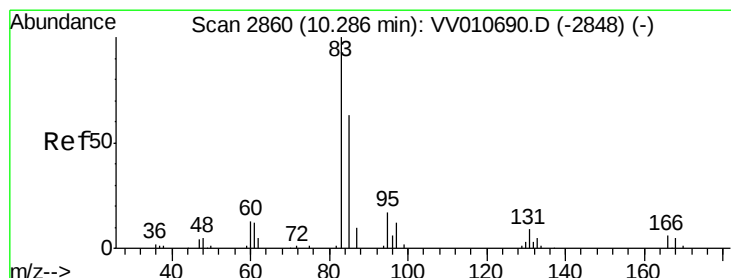
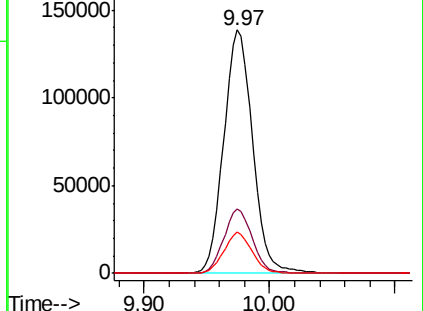
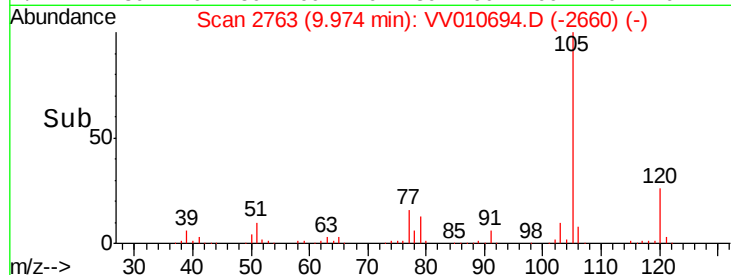
77 16.5 12.8 19.2



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: 23.758 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

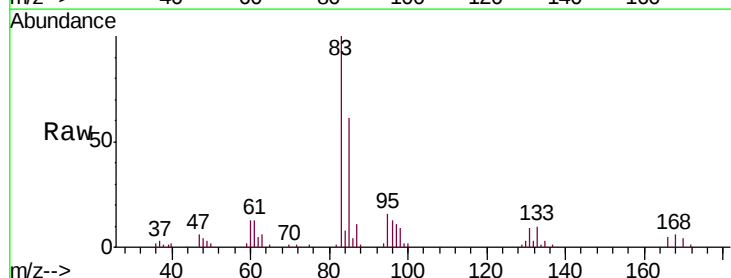
Tgt Ion: 83 Resp: 44721

Ion Ratio Lower Upper

83 100

85 61.2 44.6 82.8

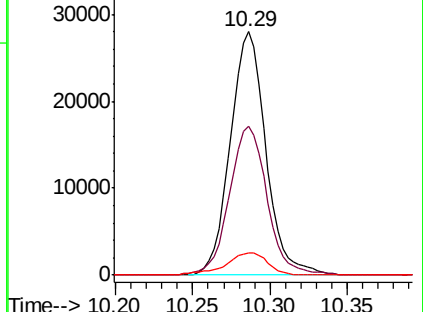
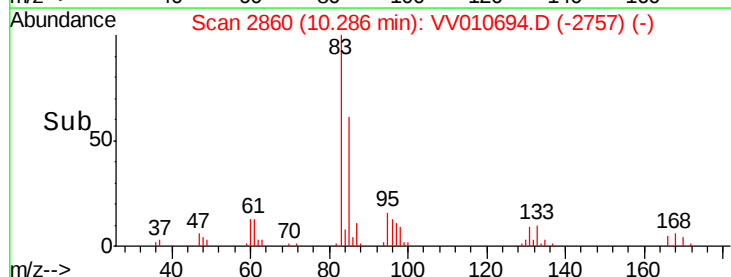
131 9.1 7.9 11.9

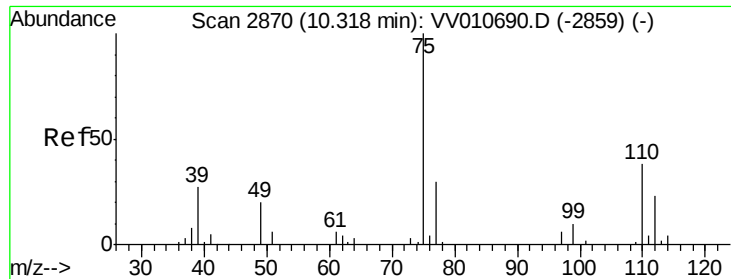


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

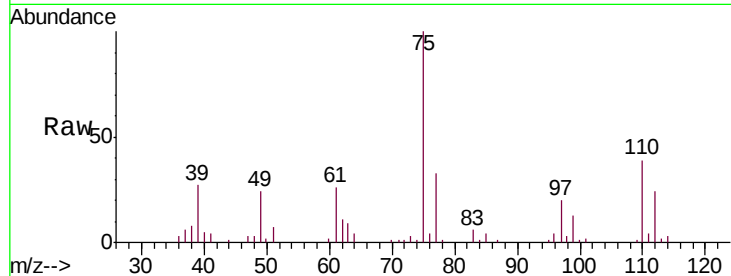




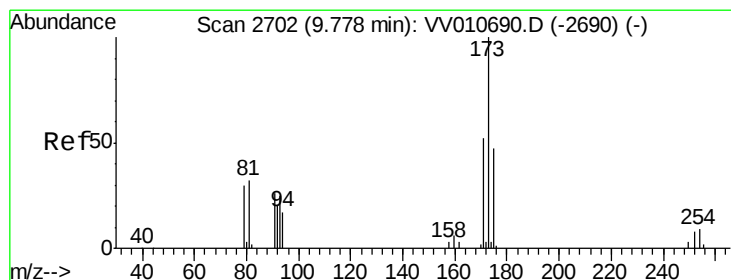
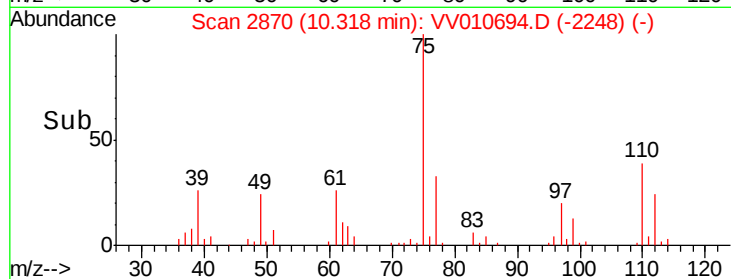
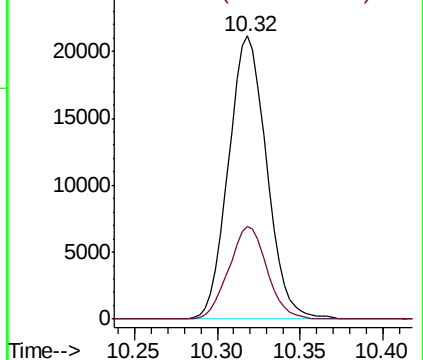
#59
 1,2,3-Trichloropropane
 Concen: 23.092 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tgt Ion: 75 Resp: 33925
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.0 37.6

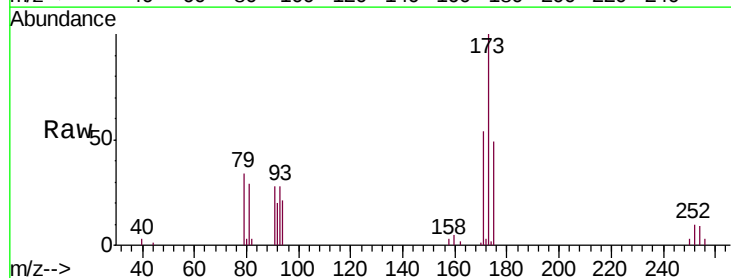


Abundance Ion 75.00 (74.70 to 75.70): VV010694.D (-2859) (-)
 Ion 77.00 (76.70 to 77.70): VV010694.D (-2859) (-)

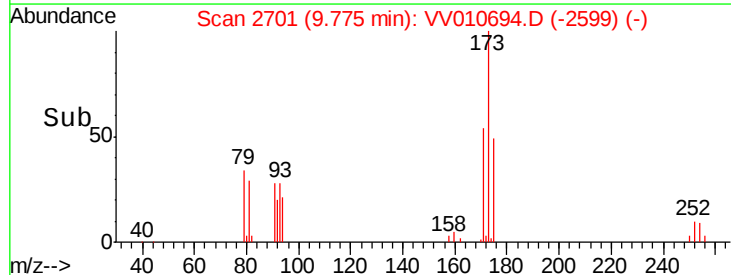
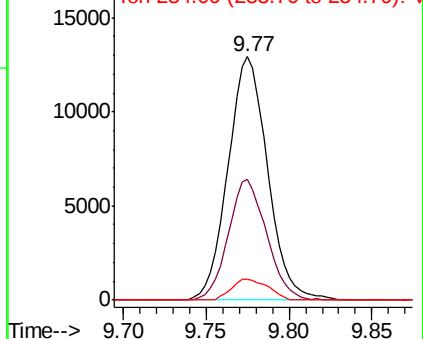


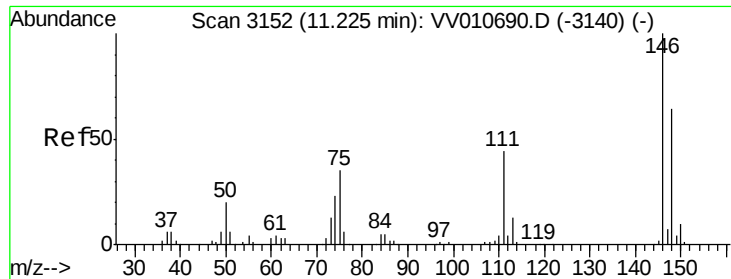
#62
 Bromoform
 Concen: 23.822 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion: 173 Resp: 21461
 Ion Ratio Lower Upper
 173 100
 175 47.6 38.6 58.0
 254 8.0 6.5 9.7



Abundance Ion 173.00 (172.70 to 173.70): VV010694.D (-2690) (-)
 Ion 175.00 (174.70 to 175.70): VV010694.D (-2690) (-)
 Ion 254.00 (253.70 to 254.70): VV010694.D (-2690) (-)

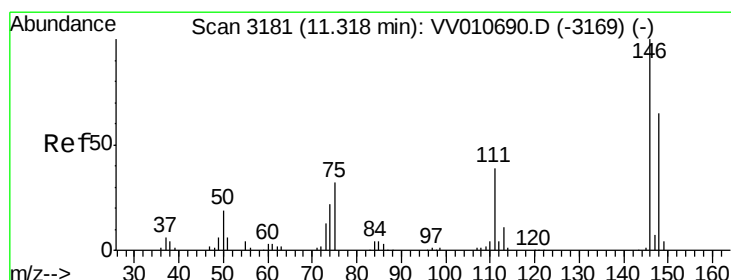
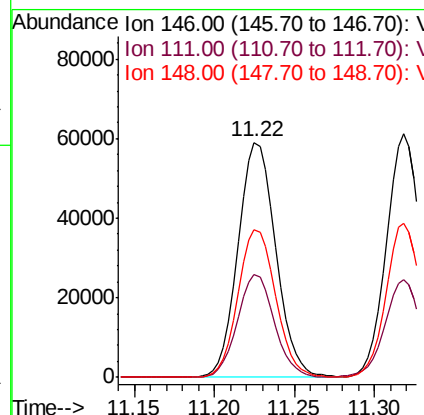
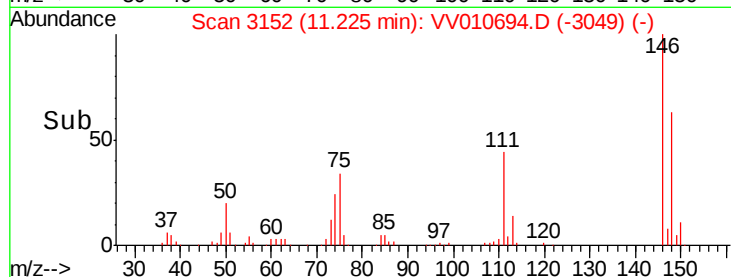
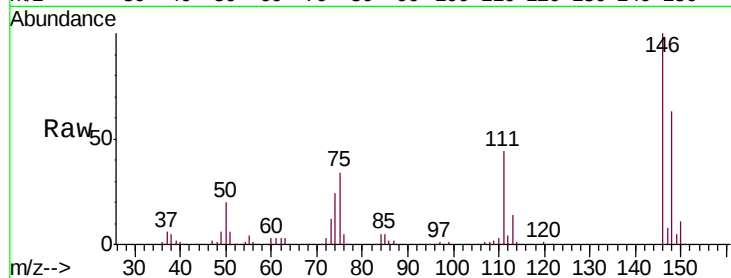




#63
 1,3-Dichlorobenzene
 Concen: 25.754 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

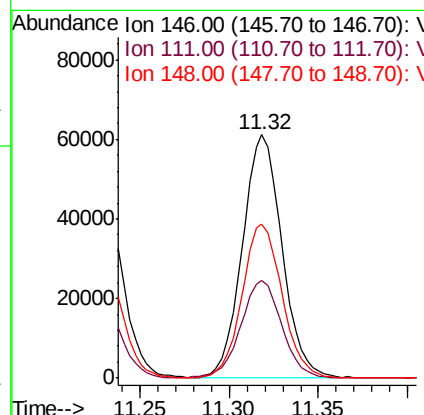
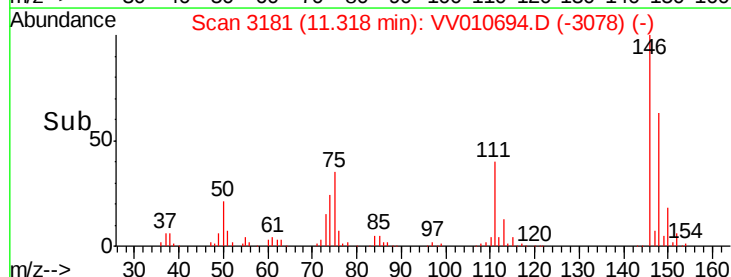
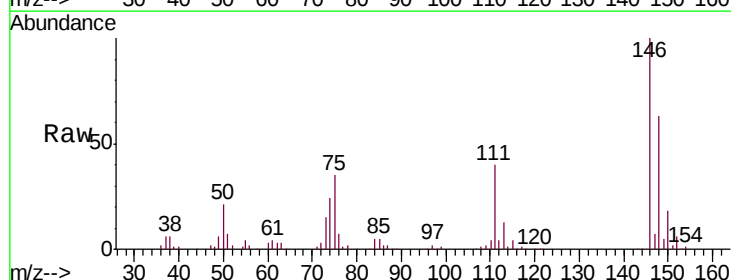
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

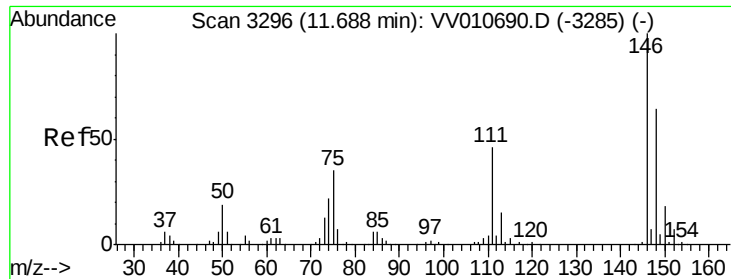
Tgt Ion:146 Resp: 94844
 Ion Ratio Lower Upper
 146 100
 111 43.7 30.6 56.8
 148 62.6 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 24.980 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion:146 Resp: 93970
 Ion Ratio Lower Upper
 146 100
 111 40.2 27.4 50.8
 148 63.5 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 24.589 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

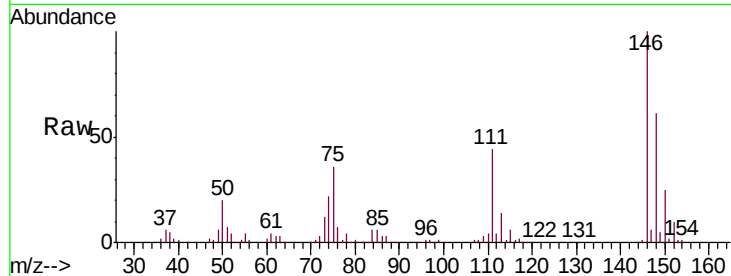
Tgt Ion:146 Resp: 87951

Ion Ratio Lower Upper

146 100

111 43.7 37.0 55.4

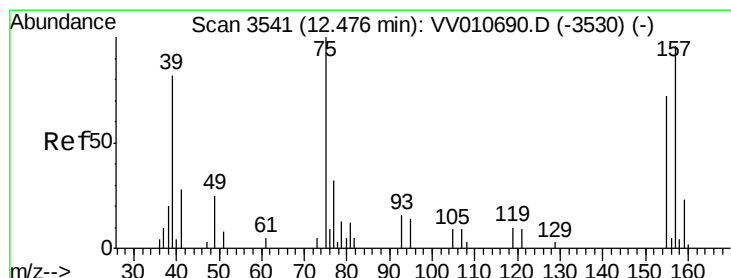
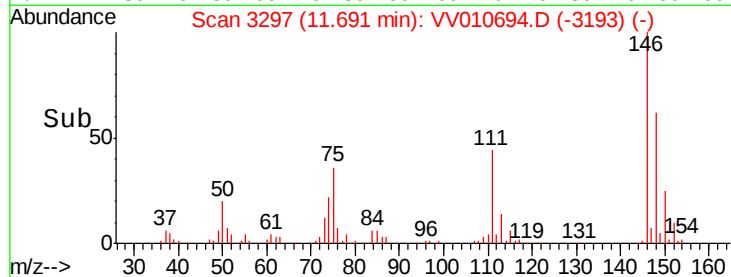
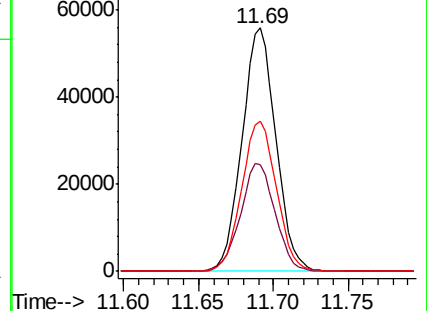
148 61.5 51.3 76.9



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: 22.392 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

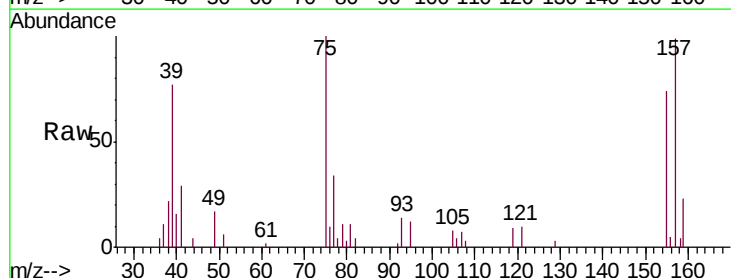
Tgt Ion: 75 Resp: 7432

Ion Ratio Lower Upper

75 100

157 99.2 76.9 115.3

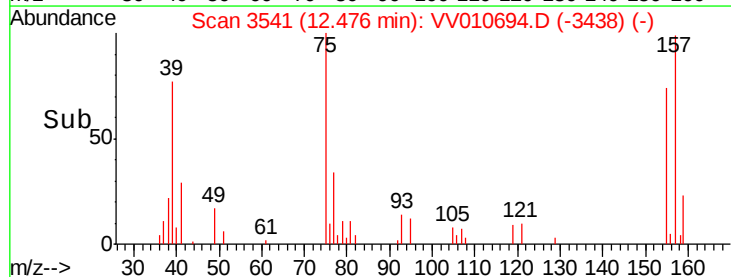
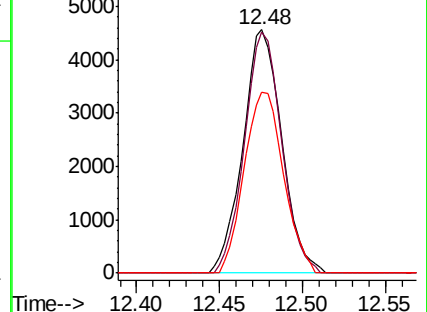
155 74.4 57.9 86.9

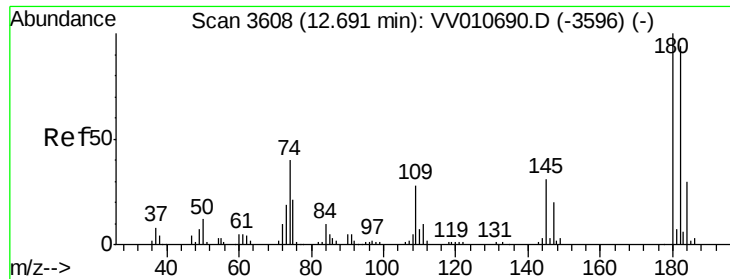


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

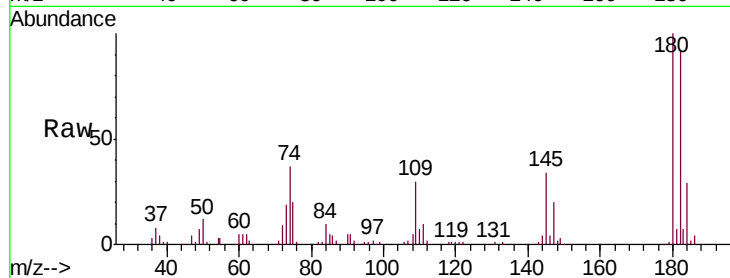




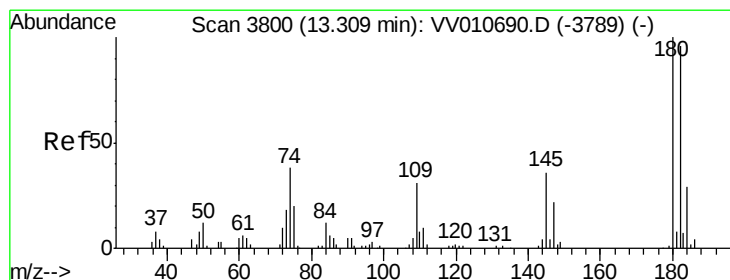
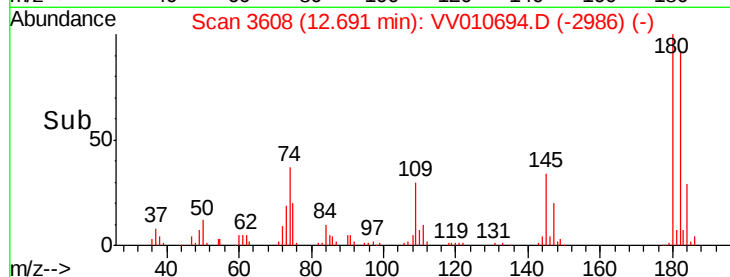
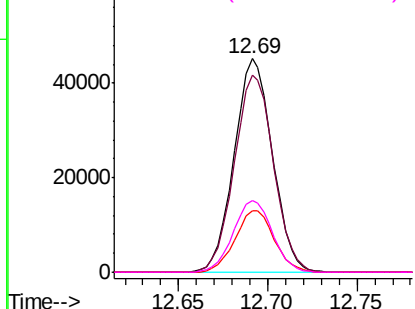
#67
 1,3,5-Trichlorobenzene
 Concen: 25.602 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tgt Ion:180 Resp: 67918
 Ion Ratio Lower Upper
 180 100
 182 94.4 74.7 112.1
 184 29.4 23.7 35.5
 145 34.2 26.0 39.0

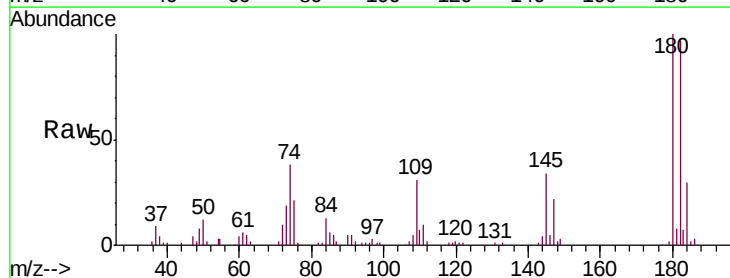


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

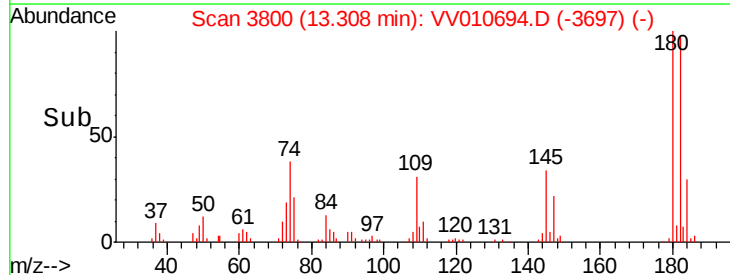
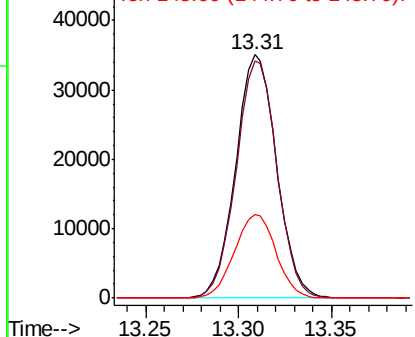


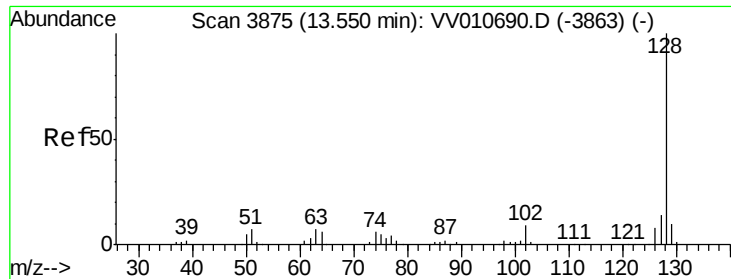
#68
 1,2,4-trichlorobenzene
 Concen: 26.135 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010694.D
 Acq: 07 May 2019 16:16

Tgt Ion:180 Resp: 53646
 Ion Ratio Lower Upper
 180 100
 182 97.0 77.1 115.7
 145 34.8 28.3 42.5



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: 26.261 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

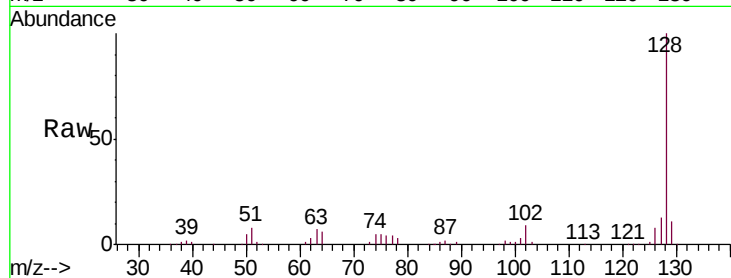
Tgt Ion:128 Resp: 115379

Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

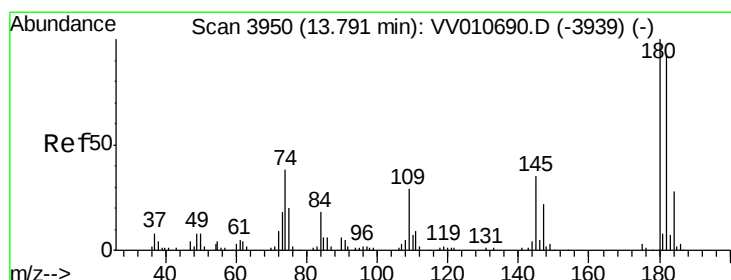
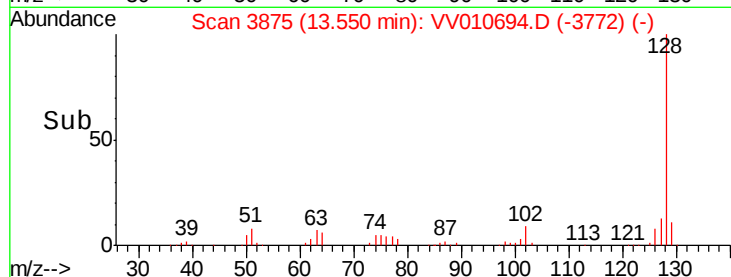
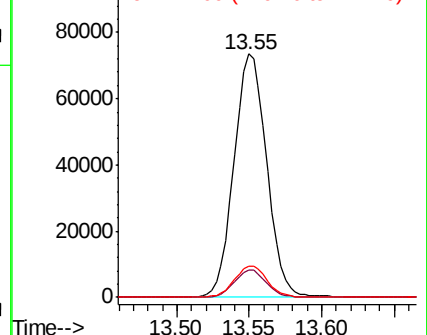
127 12.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.793 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010694.D

Acq: 07 May 2019 16:16

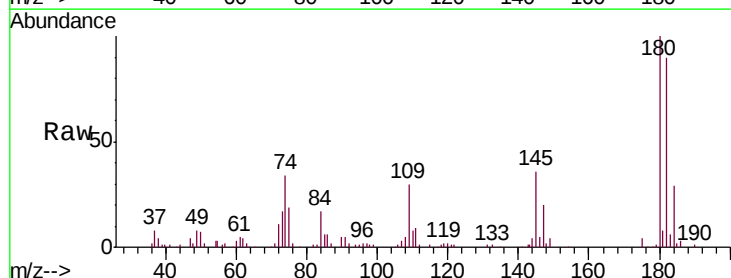
Tgt Ion:180 Resp: 51588

Ion Ratio Lower Upper

180 100

182 92.2 74.3 111.5

145 34.7 28.5 42.7



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

