

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022420\
 Data File : VV014703.D
 Acq On : 24 Feb 2020 16:39
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Quant Time: Feb 25 06:40:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM022120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 25 06:37:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	220727	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	209797	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	107563	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27382	31.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	63.52%
7) Chloroethane-d5	1.59	69	23820	38.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.26%
11) 1,1-Dichloroethene-d2	2.13	63	63241	39.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.72%
21) 2-Butanone-d5	3.95	46	69854	87.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.17%
24) Chloroform-d	4.40	84	125880	44.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.08	65	85431	47.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.70%
32) Benzene-d6	5.10	84	231423	41.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.36%
36) 1,2-Dichloropropane-d6	6.11	67	69292	42.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.60%
41) Toluene-d8	7.36	98	219749	41.09	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.18%
43) trans-1,3-Dichloropropene-	7.66	79	38916	42.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.80%
47) 2-Hexanone-d5	8.13	63	59884	92.28	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.28%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	105678	47.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	93147	44.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	70317	45.088	ug/L 99
3) Chloromethane	1.25	50	31489	38.179	ug/L 97
5) Vinyl chloride	1.33	62	33634	40.605	ug/L 99
6) Bromomethane	1.54	94	22491	45.712	ug/L 98
8) Chloroethane	1.60	64	19198	42.490	ug/L 99
9) Trichlorofluoromethane	1.77	101	84016	46.753	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	33827	45.247	ug/L 95
12) 1,1-Dichloroethene	2.14	96	30504	45.335	ug/L 97
13) Acetone	2.22	43	56549	79.477	ug/L 85
14) Carbon disulfide	2.32	76	126772	41.620	ug/L 98
15) Methyl Acetate	2.47	43	49108	42.249	ug/L 98
16) Methylene chloride	2.54	84	63092	44.949	ug/L 98
17) trans-1,2-Dichloroethene	2.79	96	58293	44.679	ug/L 99
18) Methyl tert-butyl Ether	2.81	73	201264	45.885	ug/L 99
19) 1,1-Dichloroethane	3.23	63	105500	44.862	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	68624	45.283	ug/L 99
22) 2-Butanone	4.04	43	72015	79.925	ug/L 94

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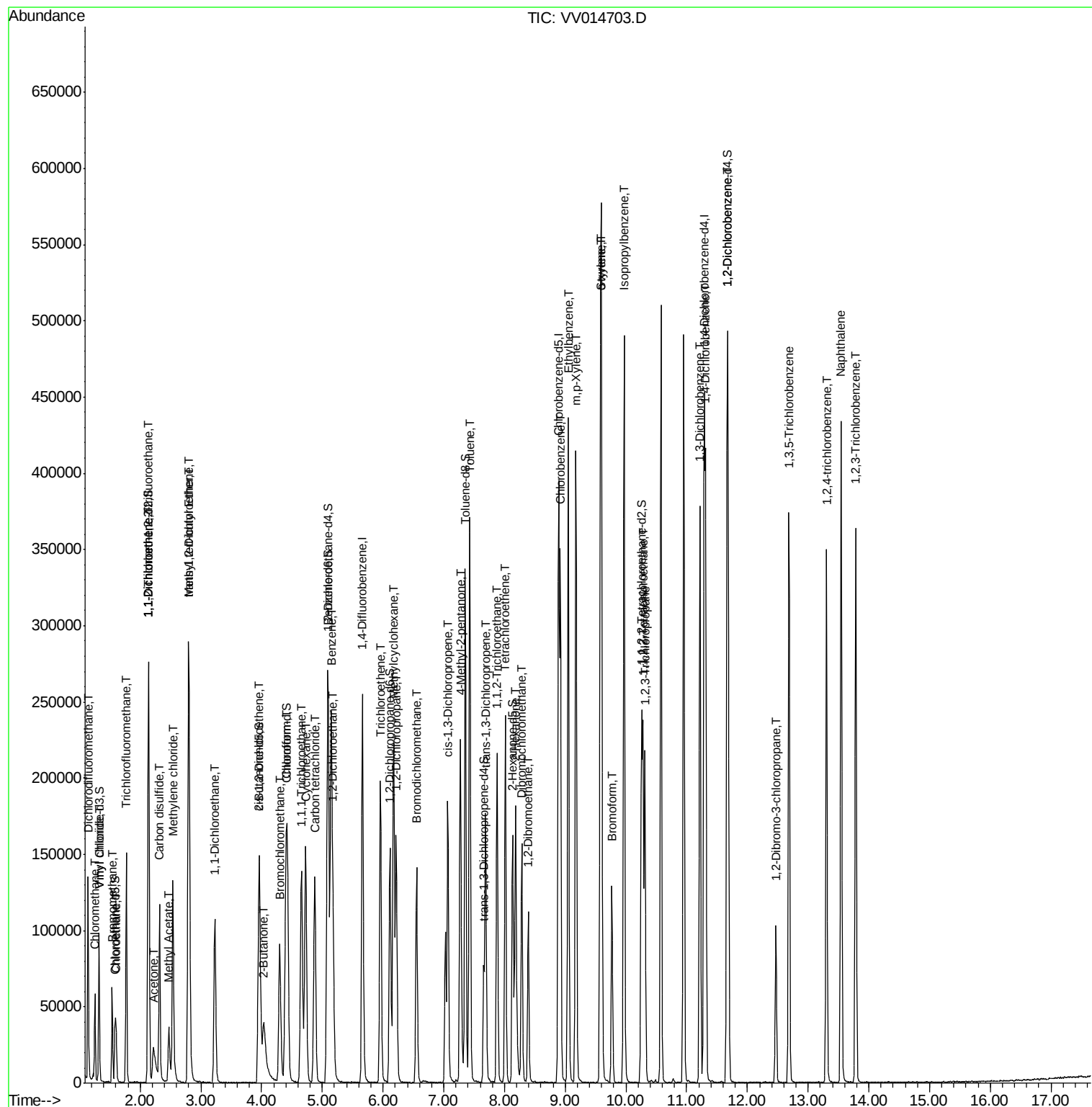
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	34543	44.900	ug/L	94
25) Chloroform	4.42	83	125523	45.885	ug/L	100
27) 1,2-Dichloroethane	5.18	62	94961	47.368	ug/L	98
29) Cyclohexane	4.73	56	81940	41.791	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	113761	46.628	ug/L	99
31) Carbon tetrachloride	4.87	117	100333	46.479	ug/L	98
33) Benzene	5.14	78	239137	44.198	ug/L	100
34) Trichloroethene	5.96	95	68740	43.645	ug/L	99
35) Methylcyclohexane	6.17	83	100549	44.724	ug/L	98
37) 1,2-Dichloropropane	6.22	63	57780	43.661	ug/L	98
38) Bromodichloromethane	6.55	83	94070	46.120	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	106307	44.981	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	148183	90.391	ug/L	99
42) Toluene	7.43	91	265119	45.322	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	98596	45.983	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	64766	45.724	ug/L	99
46) Tetrachloroethene	8.01	164	52342	45.937	ug/L	98
48) 2-Hexanone	8.18	43	116544	90.640	ug/L	99
49) Dibromochloromethane	8.29	129	80013	47.533	ug/L	100
50) 1,2-Dibromoethane	8.39	107	70766	45.345	ug/L	98
51) Chlorobenzene	8.92	112	180412	45.260	ug/L	98
52) Ethylbenzene	9.05	91	307068	45.804	ug/L	100
53) m,p-Xylene	9.18	106	117926	45.497	ug/L	98
54) o-xylene	9.58	106	116451	46.163	ug/L	95
55) Styrene	9.60	104	196726	46.773	ug/L	97
56) Isopropylbenzene	9.97	105	313136	46.956	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	101941	46.743	ug/L	97
59) 1,2,3-Trichloropropane	10.31	75	83546	46.660	ug/L	99
61) Bromoform	9.77	173	55819	47.806	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	145941	45.257	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	148835	45.099	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	147919	46.068	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.47	75	25415	46.552	ug/L	97
67) 1,3,5-Trichlorobenzene	12.68	180	107882	45.516	ug/L	99
68) 1,2,4-trichlorobenzene	13.30	180	100554	45.228	ug/L	99
69) Naphthalene	13.54	128	332547	44.535	ug/L	99
70) 1,2,3-Trichlorobenzene	13.78	180	100428	43.965	ug/L	99

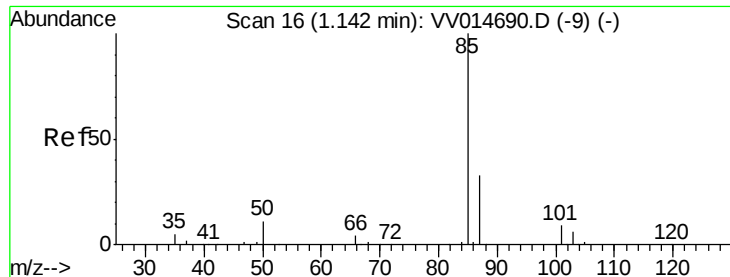
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.088 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

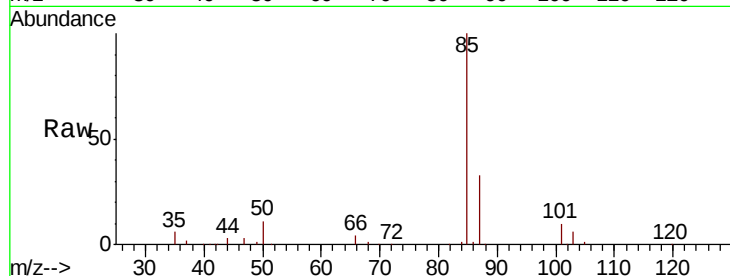
VSTD05075

Tot Ion: 85 Resp: 70317

Ion Ratio Lower Upper

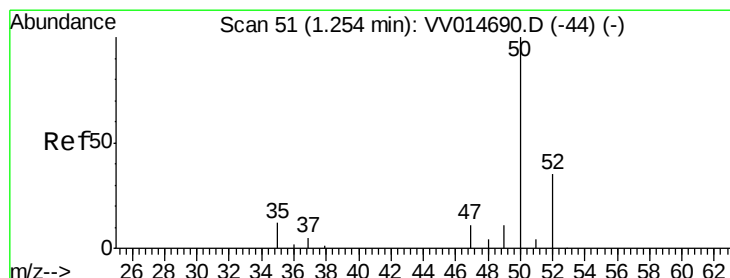
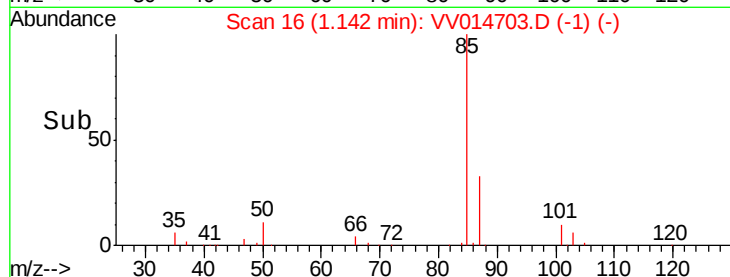
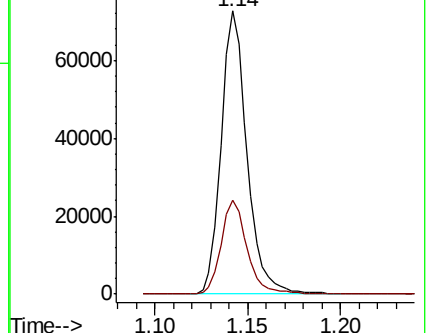
85 100

87 33.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV014690.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV014690.D (-9) (-)



#3

Chloromethane

Concen: 38.179 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014703.D

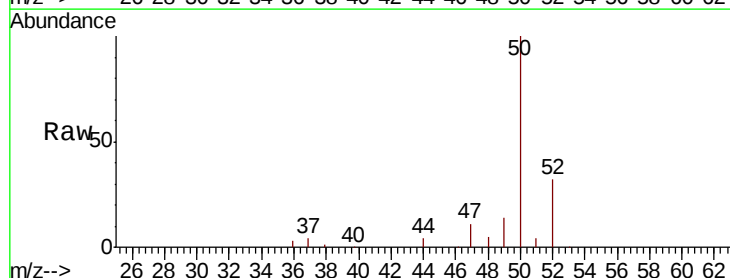
Acq: 24 Feb 2020 16:39

Tgt Ion: 50 Resp: 31489

Ion Ratio Lower Upper

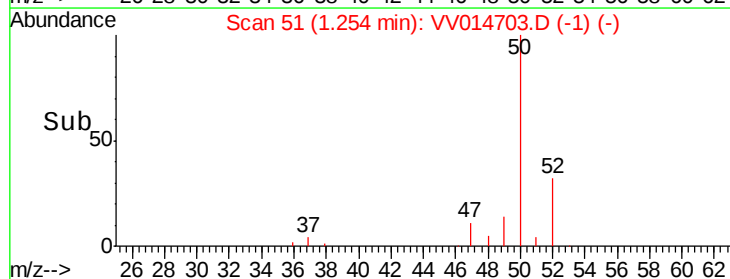
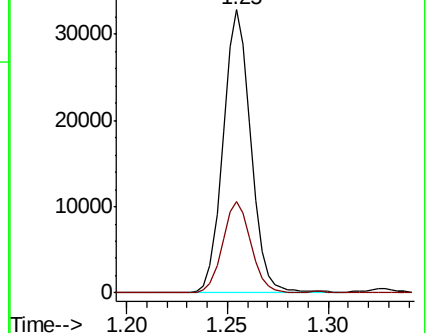
50 100

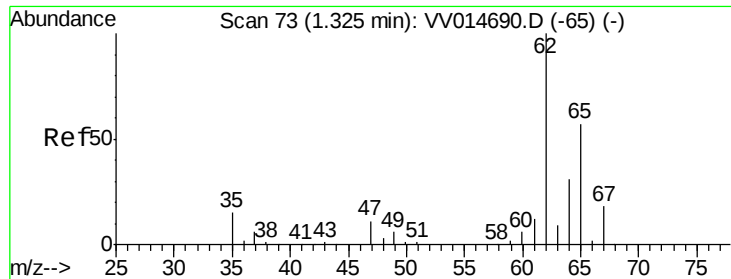
52 32.2 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV014690.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014690.D (-44) (-)





#5

Vinyl chloride

Concen: 40.605 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

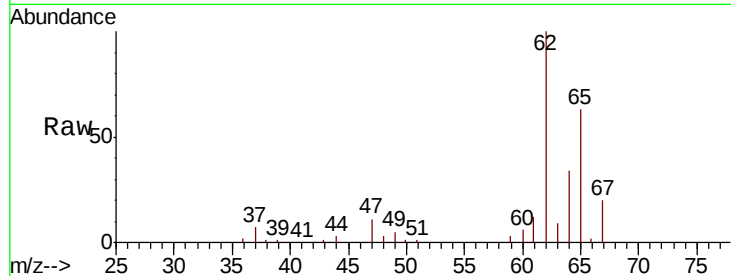
VSTD05075

Tot Ion: 62 Resp: 33634

Ion Ratio Lower Upper

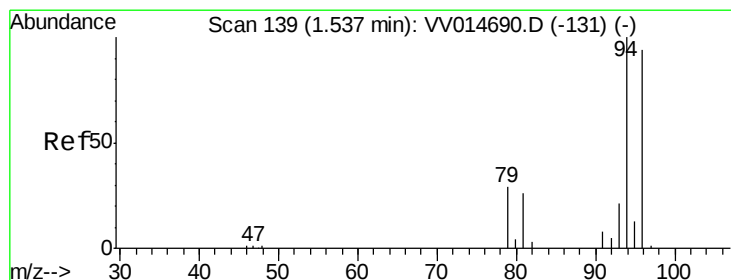
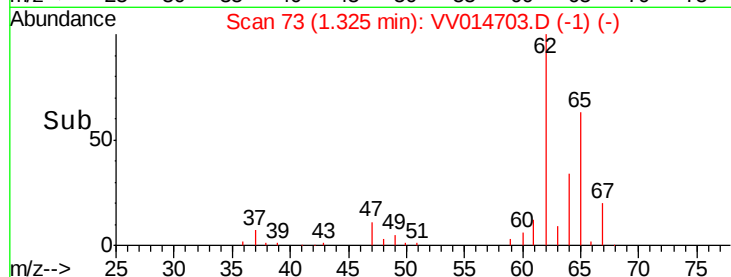
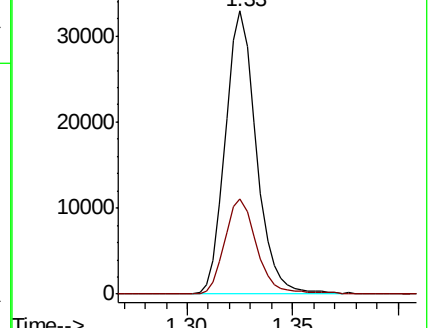
62 100

64 33.6 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VV014703.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV014703.D (-65) (-)



#6

Bromomethane

Concen: 45.712 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV014703.D

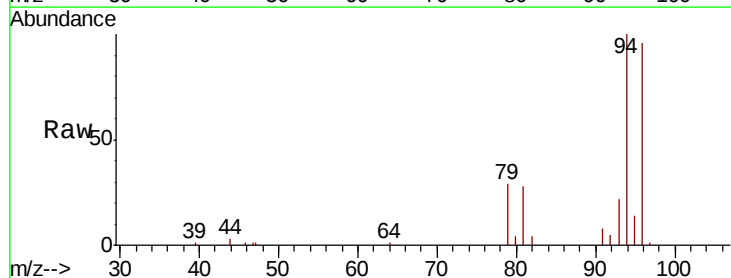
Acq: 24 Feb 2020 16:39

Tgt Ion: 94 Resp: 22491

Ion Ratio Lower Upper

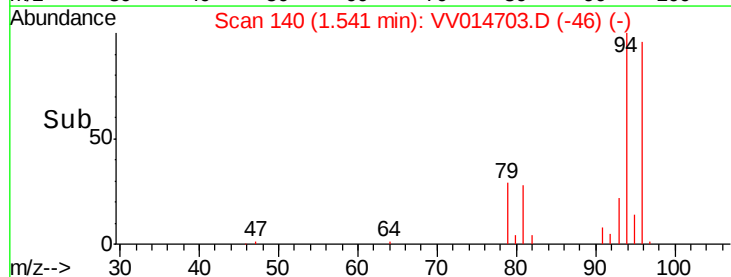
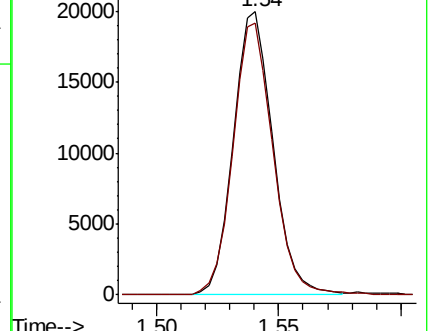
94 100

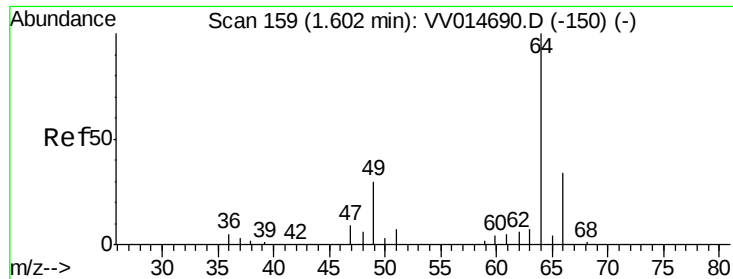
96 95.9 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VV014703.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV014703.D (-131) (-)





#8

Chloroethane

Concen: 42.490 ug/L

RT: 1.60 min Scan# 160

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

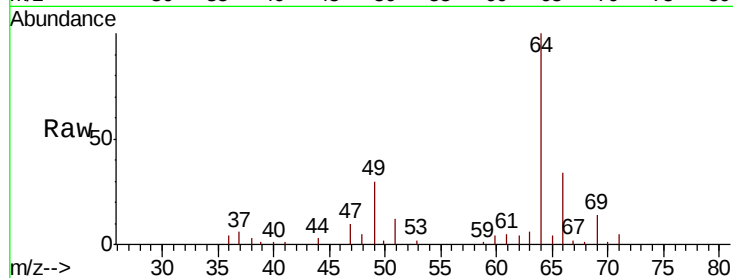
VSTD05075

Tot Ion: 64 Resp: 19198

Ion Ratio Lower Upper

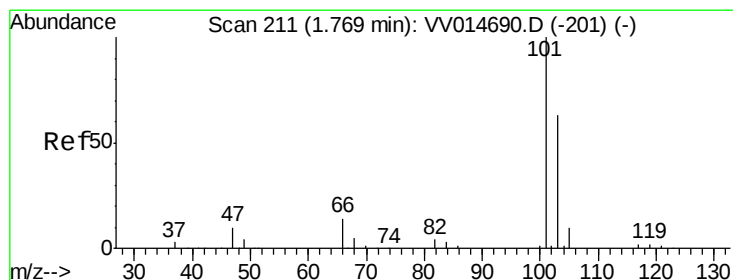
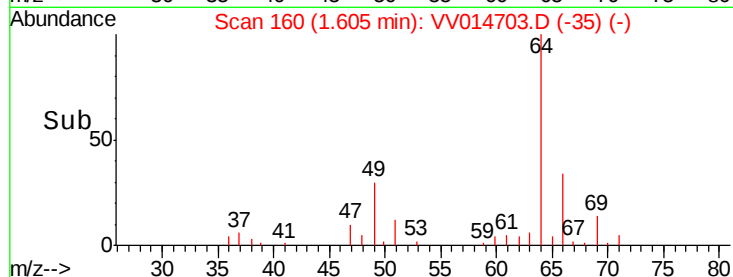
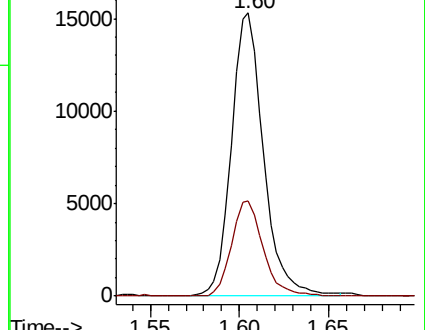
64 100

66 33.8 23.2 43.2



Abundance Ion 64.00 (63.70 to 64.70): VV014703.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014703.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 46.753 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV014703.D

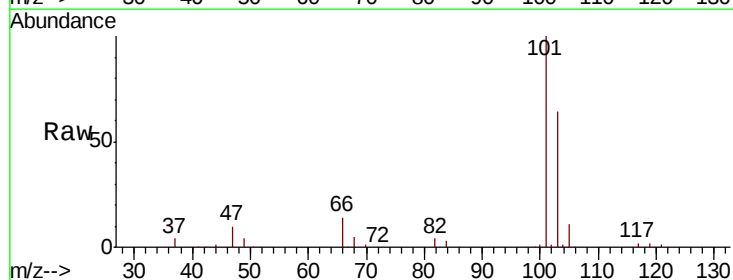
Acq: 24 Feb 2020 16:39

Tgt Ion: 101 Resp: 84016

Ion Ratio Lower Upper

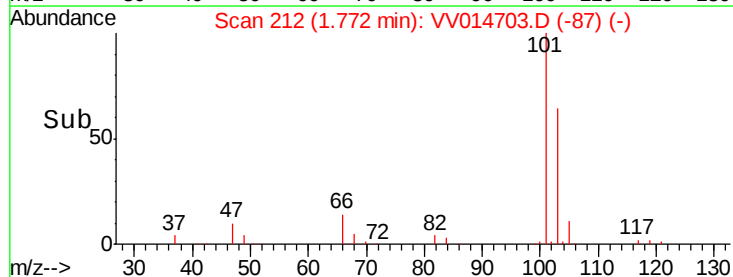
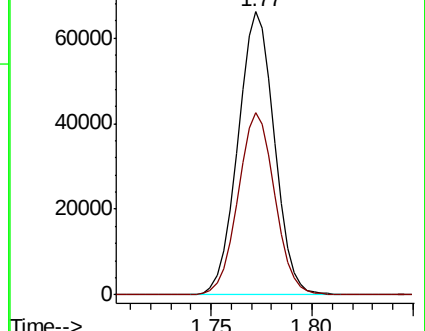
101 100

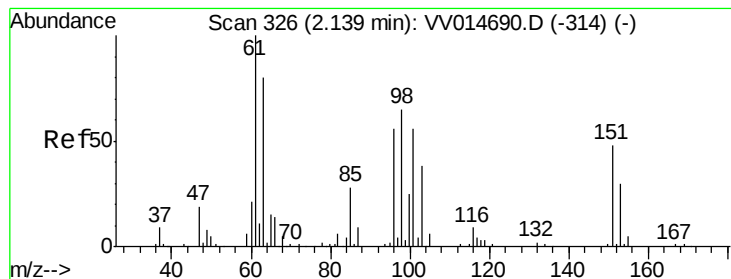
103 64.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV014703.D (-87) (-)

Ion 103.00 (102.70 to 103.70): VV014703.D (-87) (-)





#10

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

Concen: 45.247 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampled :

VSTD05075

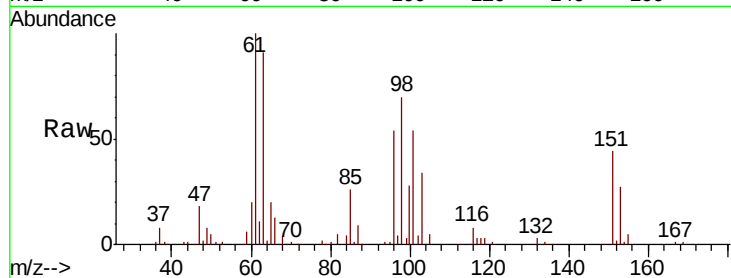
Tot Ion:101 Resp: 33827

Ion Ratio Lower Upper

101 100

85 49.2 37.3 55.9

151 86.0 64.6 96.8



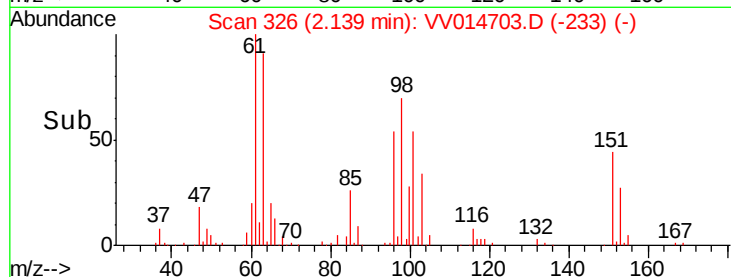
Abundance Ion 101.00 (100.70 to 101.70): VV014690.D (-314) (-)

Ion 85.00 (84.70 to 85.70): VV014690.D (-314) (-)

Ion 151.00 (150.70 to 151.70): VV014690.D (-314) (-)

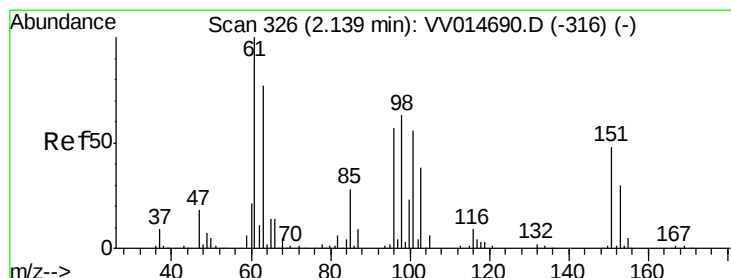
Time-->

2.10 2.15 2.20



Time-->

2.10 2.15 2.20



#12

1,1-Dichloroethene

Concen: 45.335 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

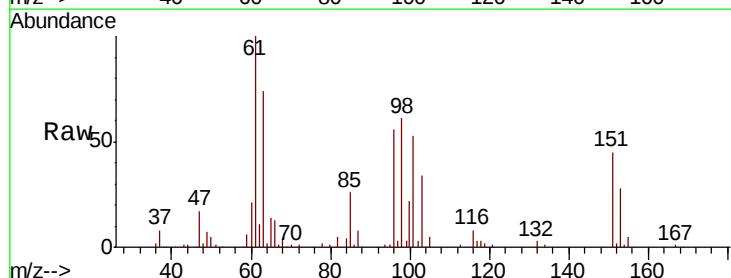
Tgt Ion: 96 Resp: 30504

Ion Ratio Lower Upper

96 100

61 180.1 124.5 231.1

63 133.4 98.1 182.1



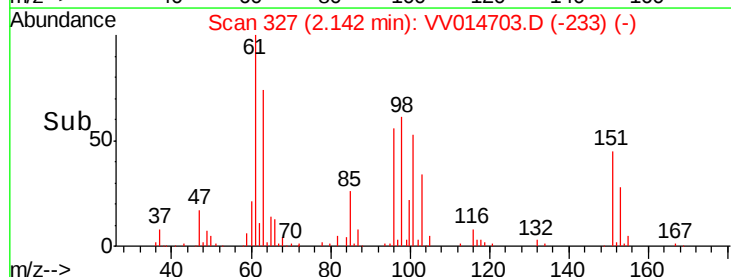
Abundance Ion 96.00 (95.70 to 96.70): VV014703.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV014703.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV014703.D (-233) (-)

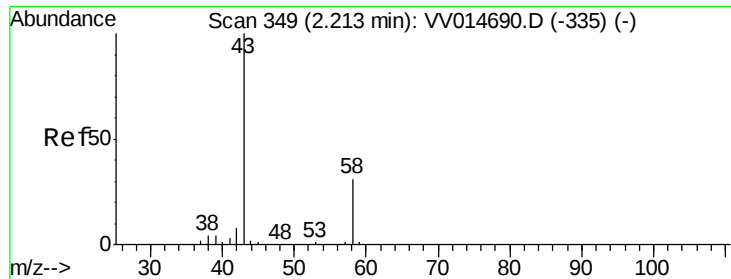
Time-->

2.10 2.15 2.20



Time-->

2.10 2.15 2.20



#13

Acetone

Concen: 79.477 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.01 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

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MSVOA_V

ClientSampleId :

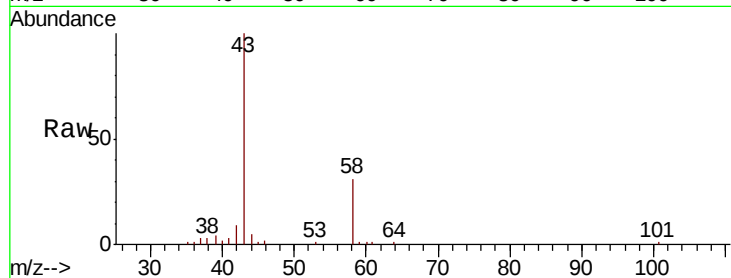
VSTD05075

Tot Ion: 43 Resp: 56549

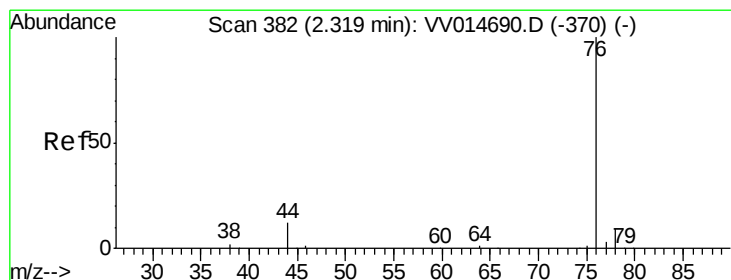
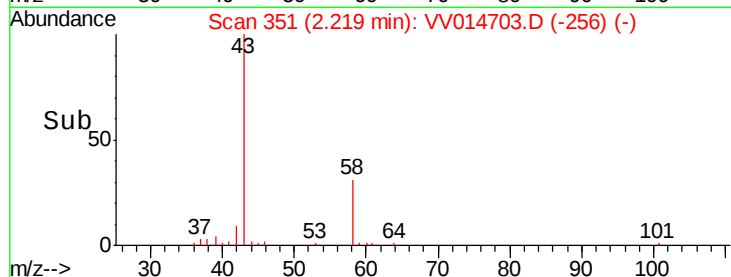
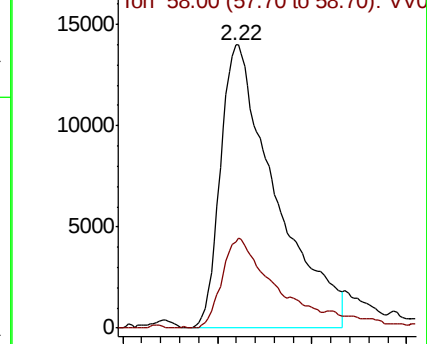
Ion Ratio Lower Upper

43 100

58 25.1 0.0 66.8



Abundance Ion 43.00 (42.70 to 43.70): VV0



#14

Carbon disulfide

Concen: 41.620 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014703.D

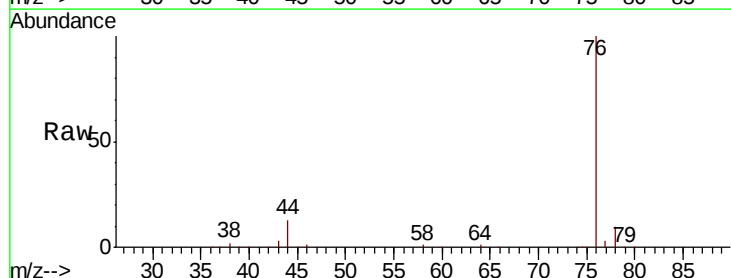
Acq: 24 Feb 2020 16:39

Tgt Ion: 76 Resp: 126772

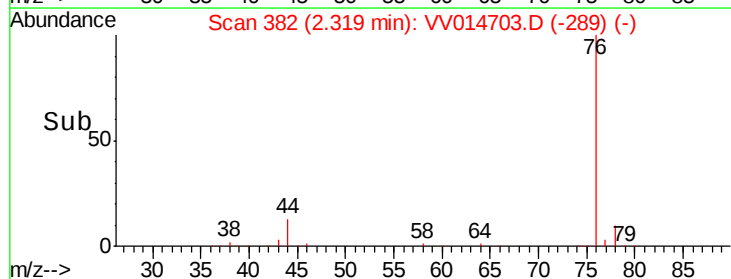
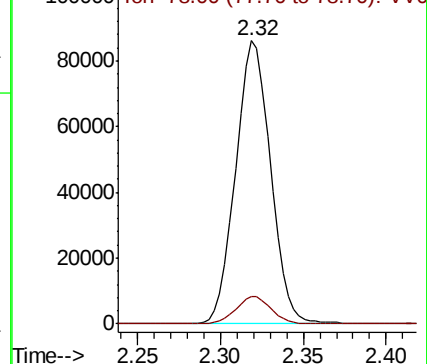
Ion Ratio Lower Upper

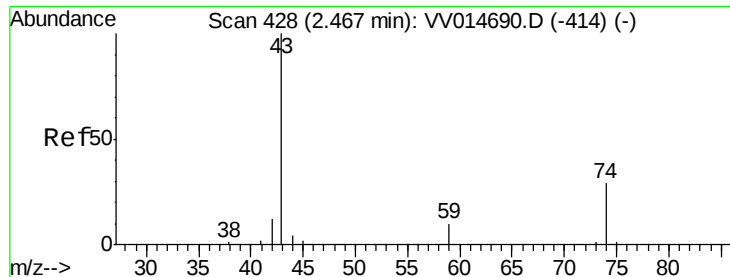
76 100

78 9.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

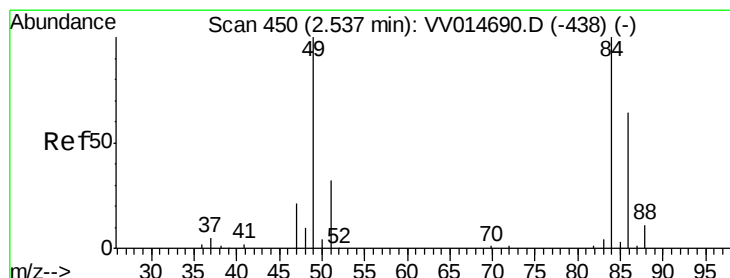
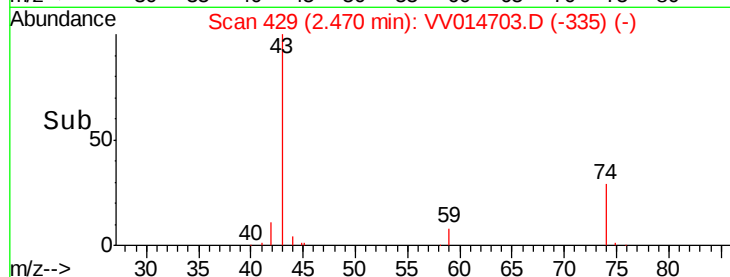
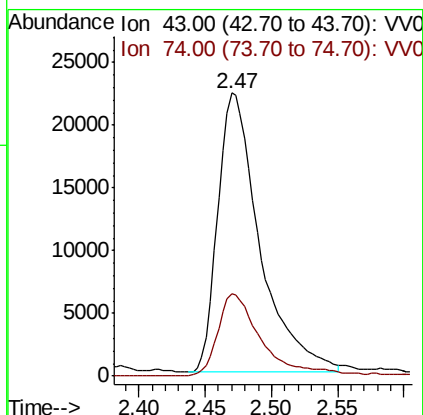
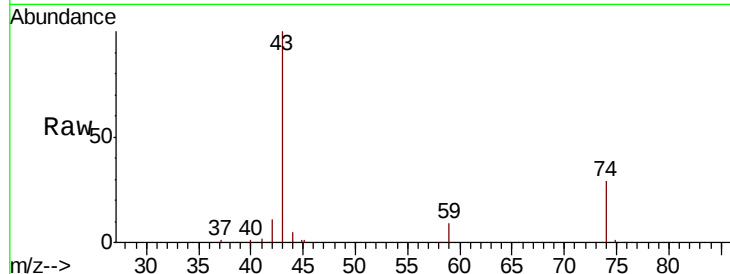




#15
Methyl Acetate
Concen: 42.249 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

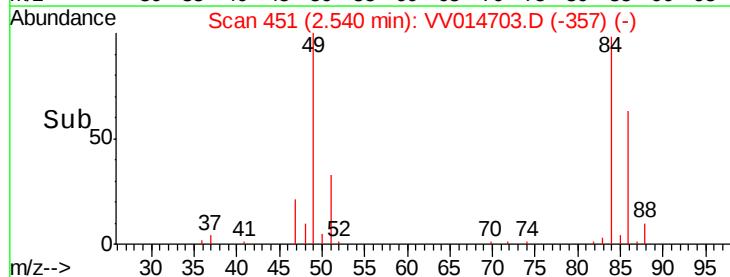
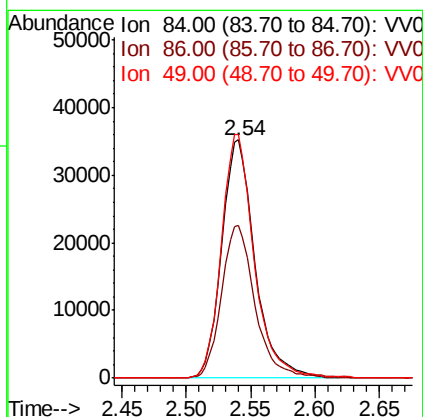
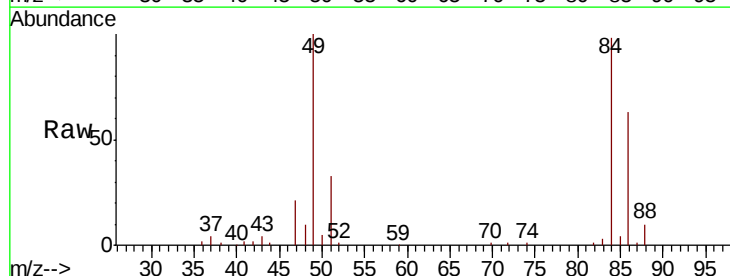
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

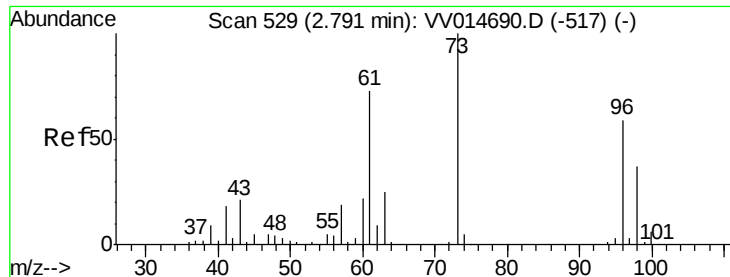
Tot Ion: 43 Resp: 49108
Ion Ratio Lower Upper
43 100
74 30.4 23.4 35.2



#16
Methylene chloride
Concen: 44.949 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion: 84 Resp: 63092
Ion Ratio Lower Upper
84 100
86 63.9 44.4 82.4
49 102.2 73.6 136.8

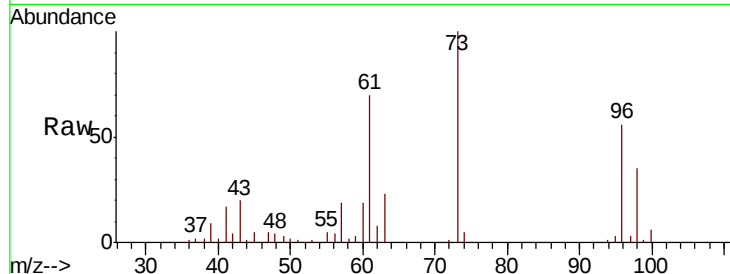




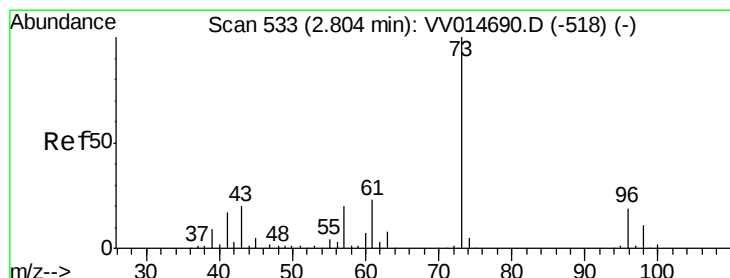
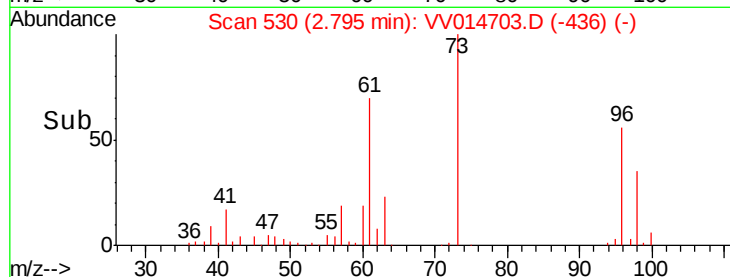
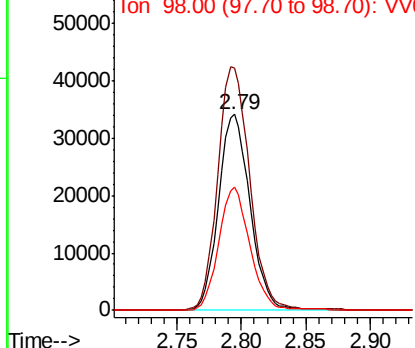
#17
trans-1,2-Dichloroethene
Concen: 44.679 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Instrument :
MSVOA_V
ClientSampled :
VSTD05075

Tot Ion: 96 Resp: 58293
Ion Ratio Lower Upper
96 100
61 124.1 88.1 163.7
98 63.1 43.7 81.1

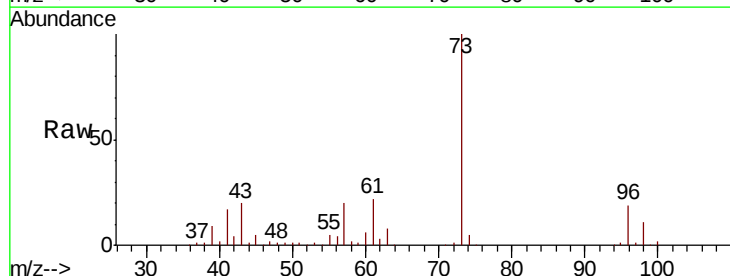


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

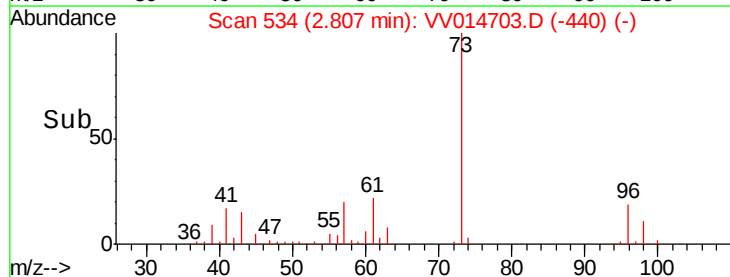
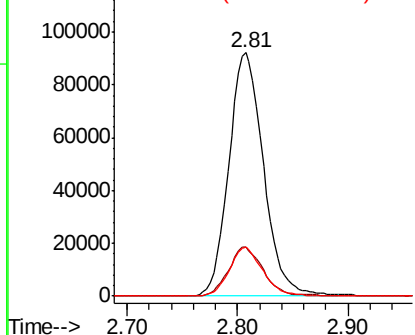


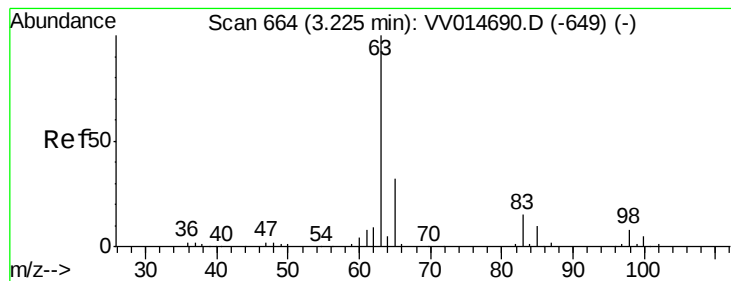
#18
Methyl tert-butyl Ether
Concen: 45.885 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion: 73 Resp: 201264
Ion Ratio Lower Upper
73 100
43 19.6 15.6 23.4
57 19.3 16.1 24.1



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





#19

1,1-Dichloroethane

Concen: 44.862 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

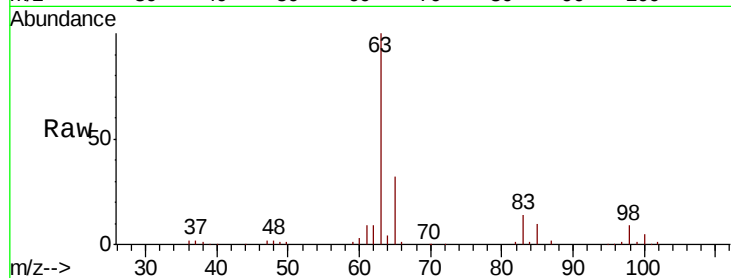
Tot Ion: 63 Resp: 105500

Ion Ratio Lower Upper

63 100

65 31.9 22.6 42.0

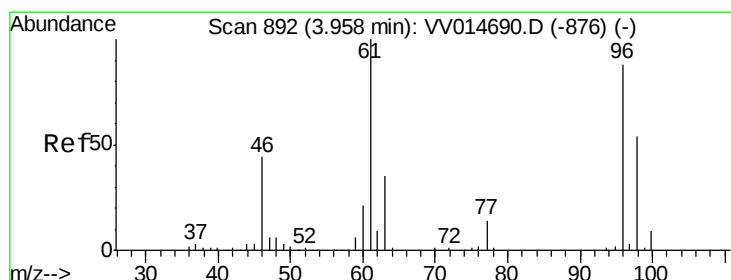
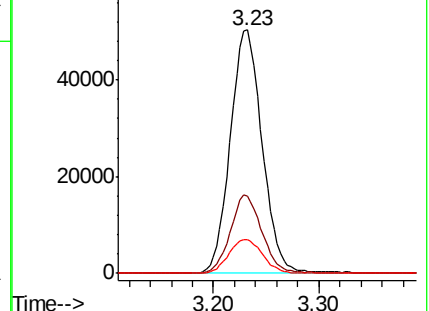
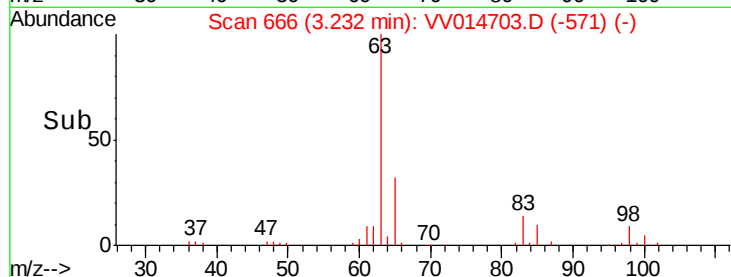
83 14.1 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV014703.D (-649) (-)

Ion 65.00 (64.70 to 65.70): VV014703.D (-649) (-)

Ion 83.00 (82.70 to 83.70): VV014703.D (-649) (-)



#20

cis-1,2-Dichloroethene

Concen: 45.283 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

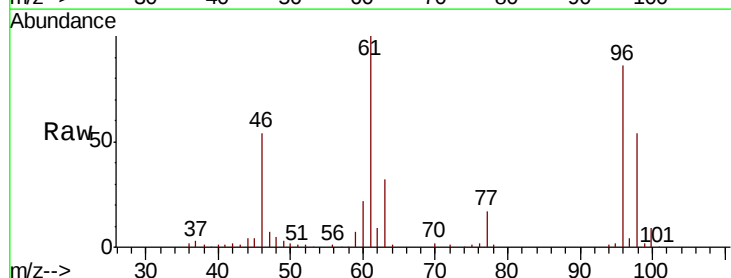
Tgt Ion: 96 Resp: 68624

Ion Ratio Lower Upper

96 100

61 116.3 82.4 153.0

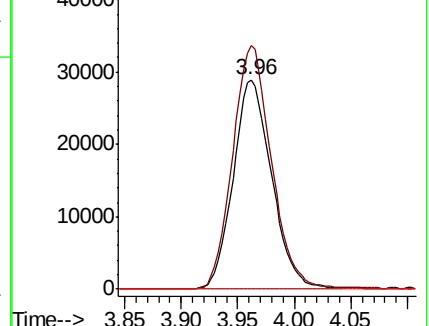
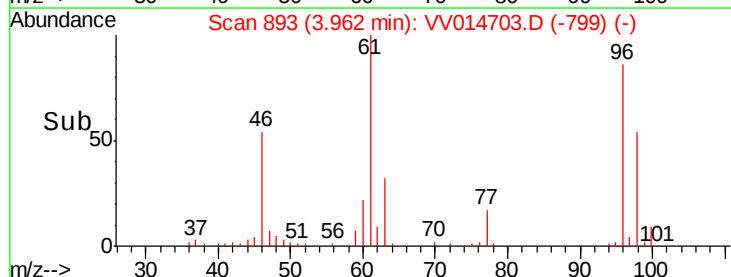
68 0.0 0.0 0.0

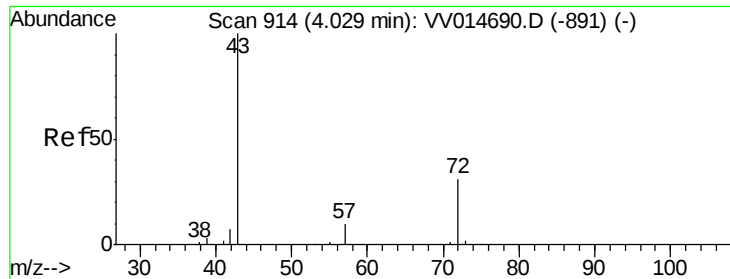


Abundance Ion 96.00 (95.70 to 96.70): VV014703.D (-799) (-)

Ion 61.00 (60.70 to 61.70): VV014703.D (-799) (-)

Ion 68.00 (67.70 to 68.70): VV014703.D (-799) (-)





#22

2-Butanone

Concen: 79.925 ug/L

RT: 4.04 min Scan# 917

Delta R.T. 0.01 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

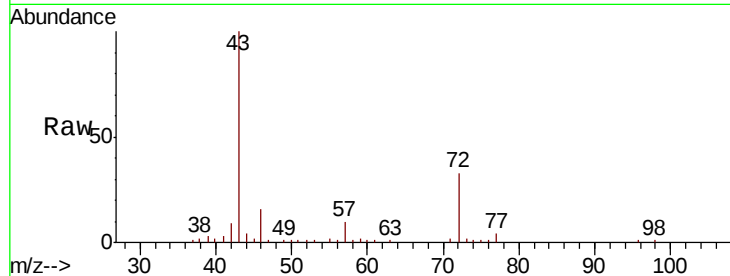
VSTD05075

Tot Ion: 43 Resp: 72015

Ion Ratio Lower Upper

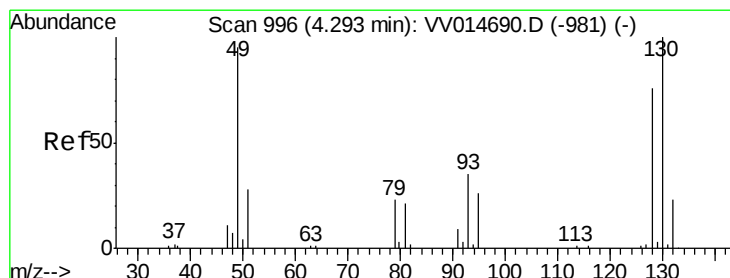
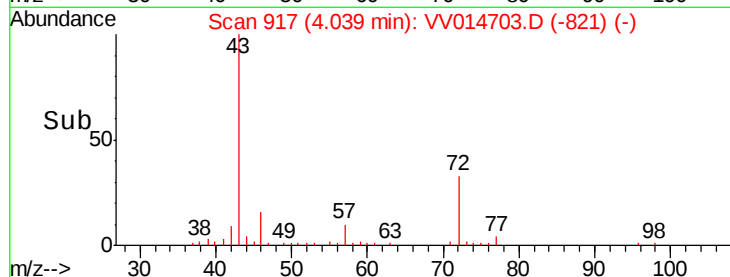
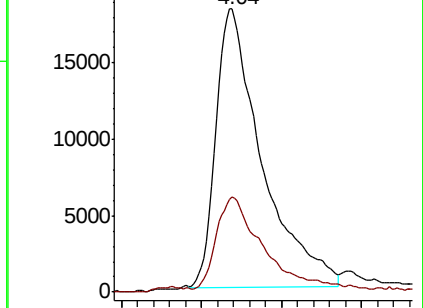
43 100

72 31.4 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VV014703.D (-917) (-)

Ion 72.00 (71.70 to 72.70): VV014703.D (-917) (-)



#23

Bromochloromethane

Concen: 44.900 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.01 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Tgt Ion: 128 Resp: 34543

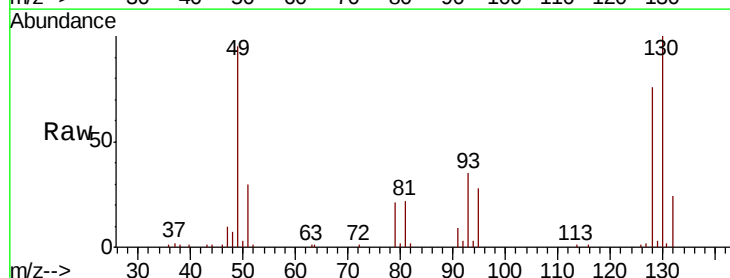
Ion Ratio Lower Upper

128 100

49 124.3 89.7 166.5

130 131.1 85.0 158.0

51 39.7 30.0 45.0

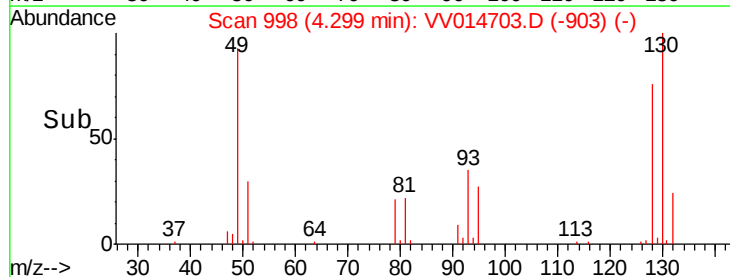
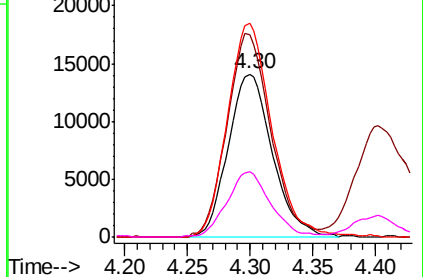


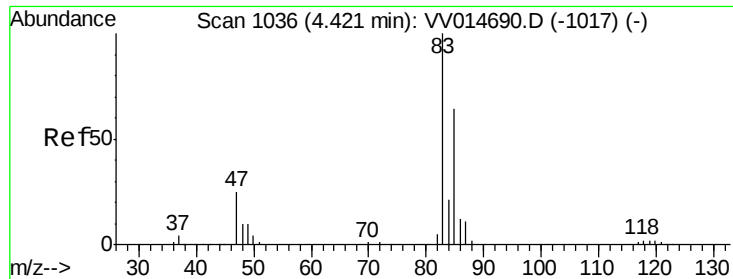
Abundance Ion 128.00 (127.70 to 128.70): VV014703.D (-998) (-)

Ion 49.00 (48.70 to 49.70): VV014703.D (-998) (-)

Ion 130.00 (129.70 to 130.70): VV014703.D (-998) (-)

Ion 51.00 (50.70 to 51.70): VV014703.D (-998) (-)

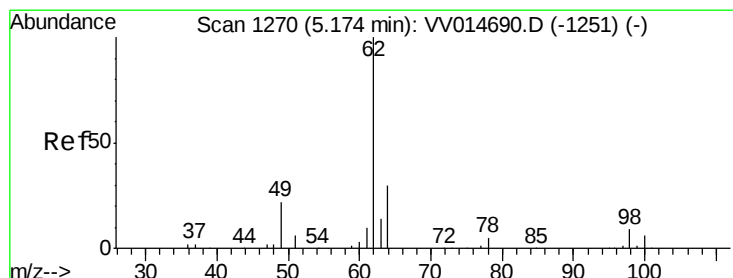
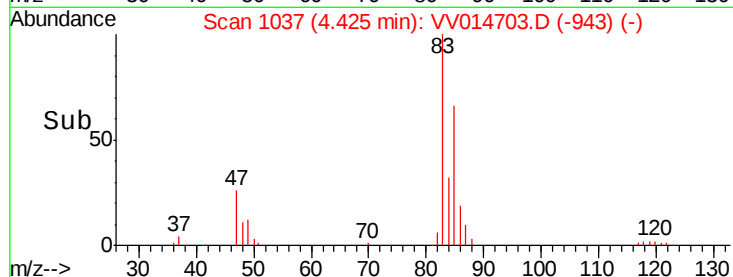
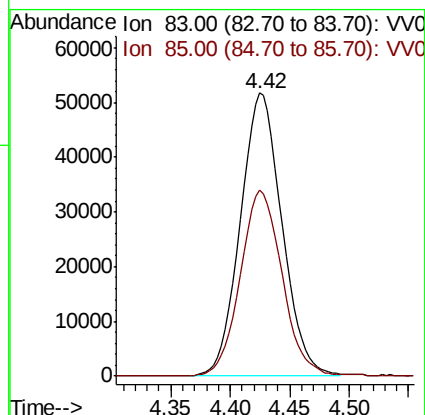
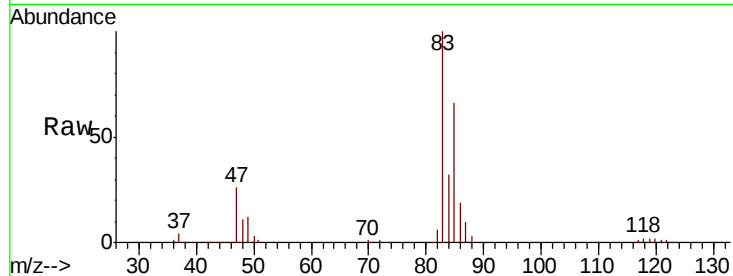




#25
Chloroform
Concen: 45.885 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

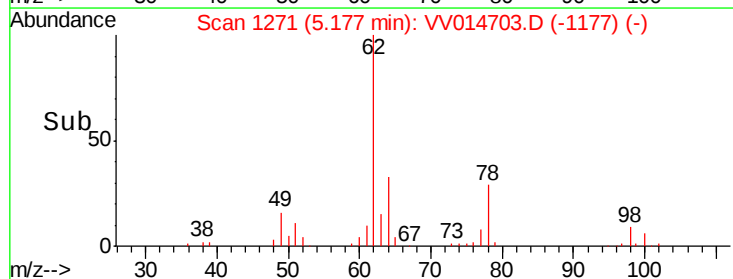
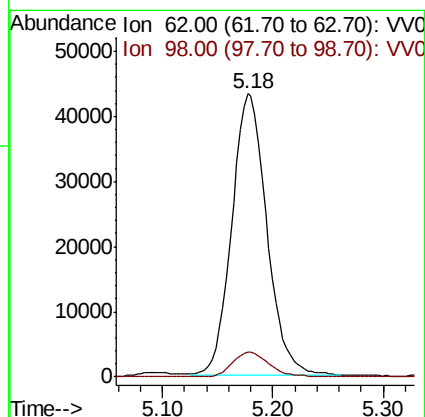
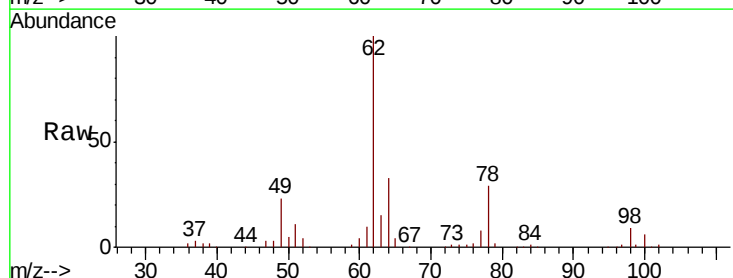
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

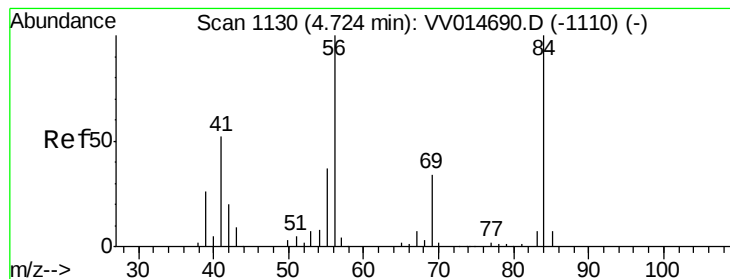
Tot Ion: 83 Resp: 125523
Ion Ratio Lower Upper
83 100
85 65.6 46.1 85.7



#27
1,2-Dichloroethane
Concen: 47.368 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion: 62 Resp: 94961
Ion Ratio Lower Upper
62 100
98 8.8 7.8 11.6





#29

Cvclohexane

Concen: 41.791 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

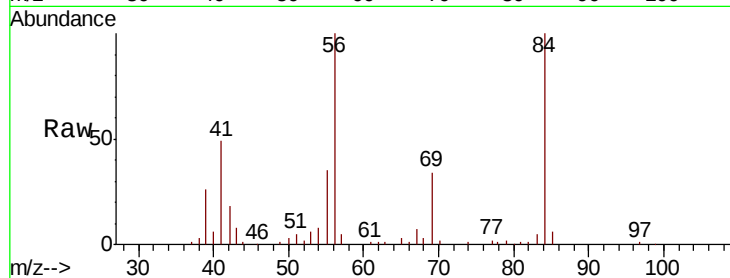
Tot Ion: 56 Resp: 81940

Ion Ratio Lower Upper

56 100

69 34.3 26.9 40.3

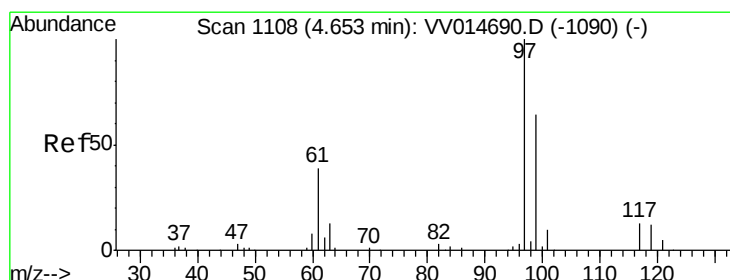
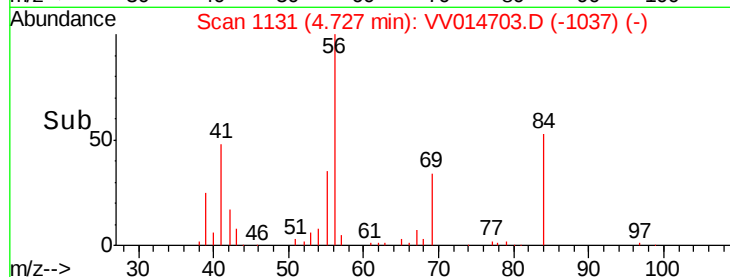
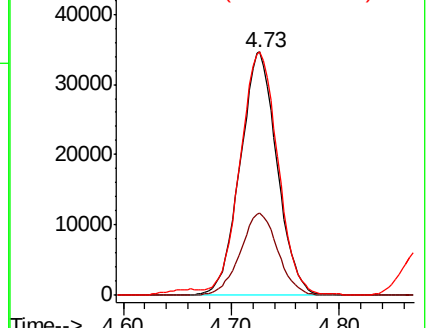
84 101.7 78.2 117.2



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



#30

1,1,1-Trichloroethane

Concen: 46.628 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

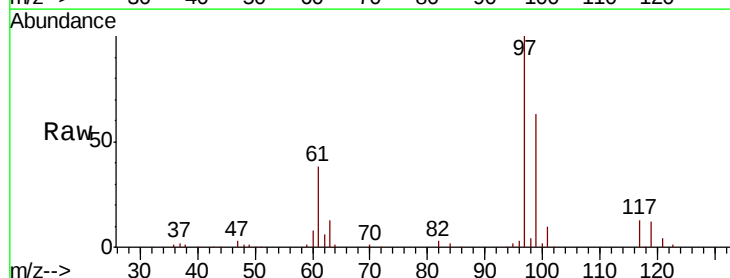
Tgt Ion: 97 Resp: 113761

Ion Ratio Lower Upper

97 100

99 65.2 52.0 78.0

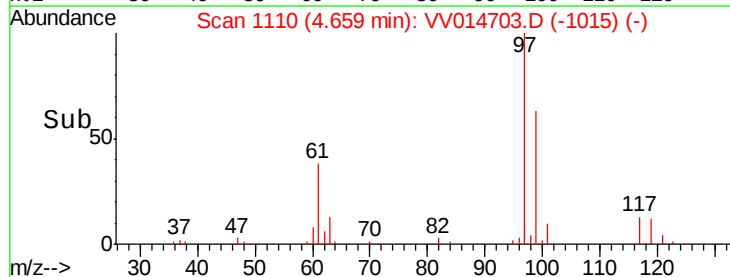
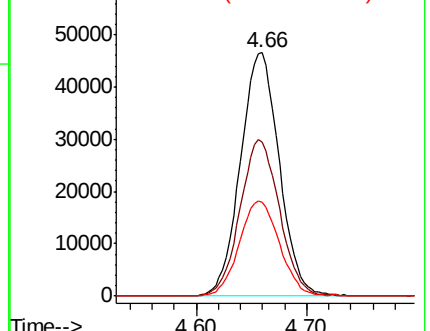
61 40.3 31.4 47.0

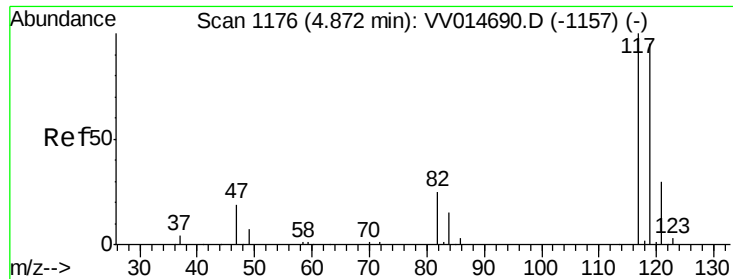


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0



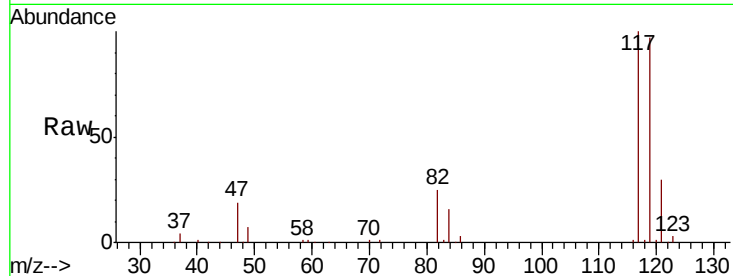


#31

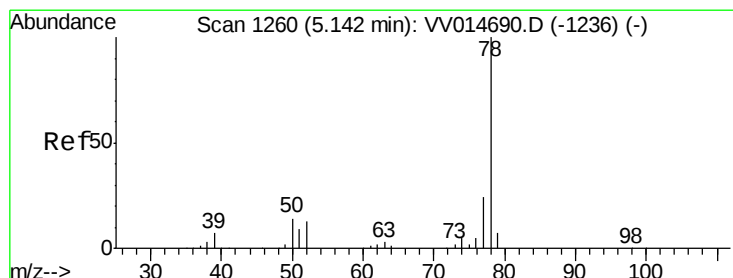
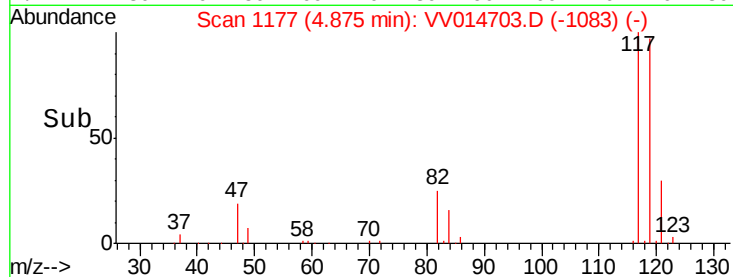
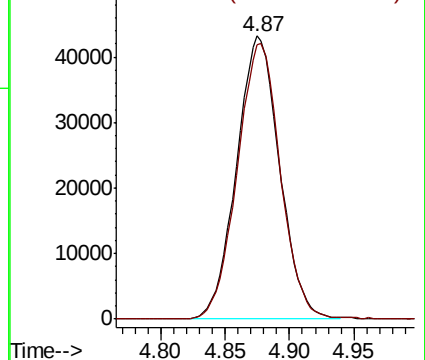
Carbon tetrachloride
Concen: 46.479 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:117 Resp: 100333
Ion Ratio Lower Upper
117 100
119 97.6 76.9 115.3



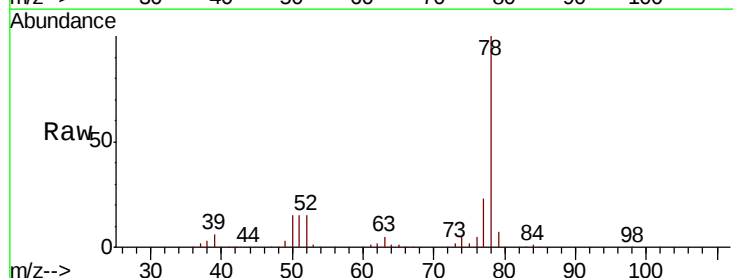
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



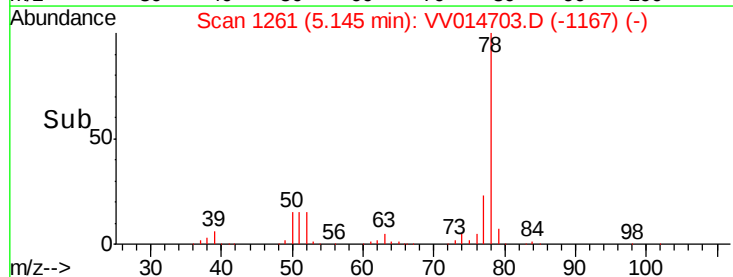
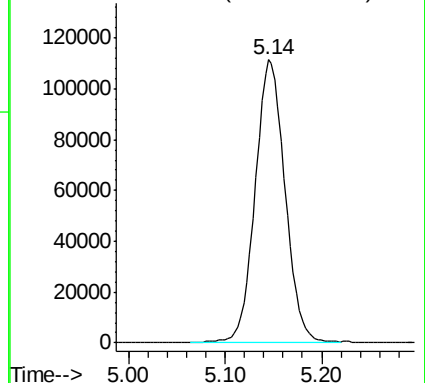
#33

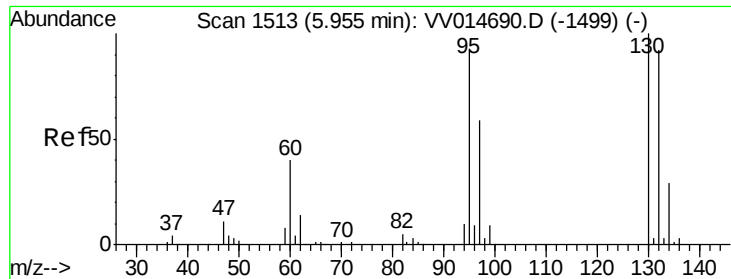
Benzene
Concen: 44.198 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion: 78 Resp: 239137



Abundance Ion 78.00 (77.70 to 78.70): VV0

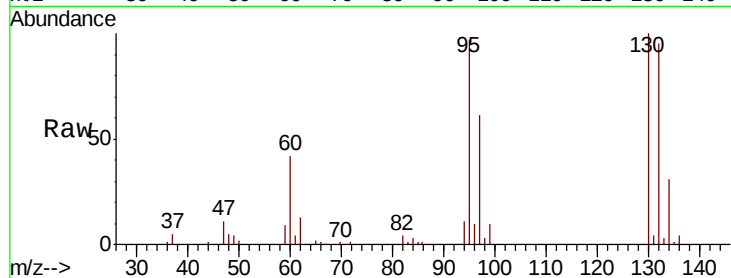




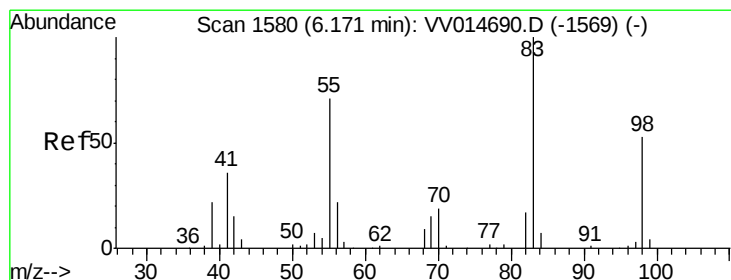
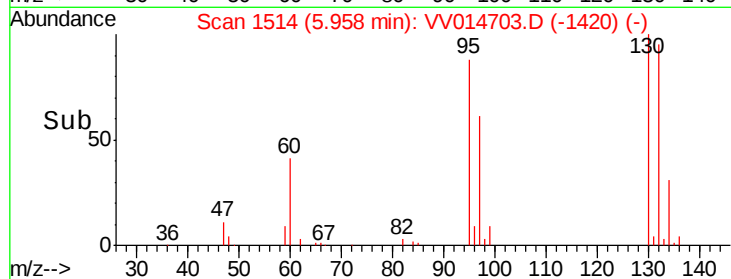
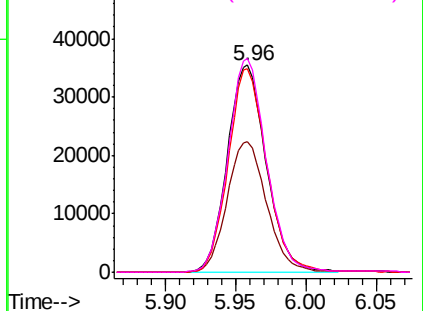
#34
 Trichloroethene
 Concen: 43.645 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tot Ion: 95 Resp: 68740
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.3 82.3
 132 98.6 69.7 129.4
 130 103.3 71.3 132.5

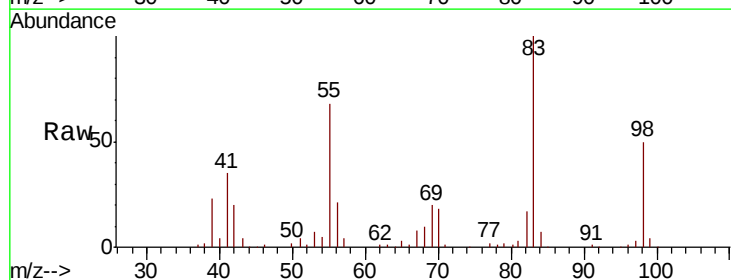


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

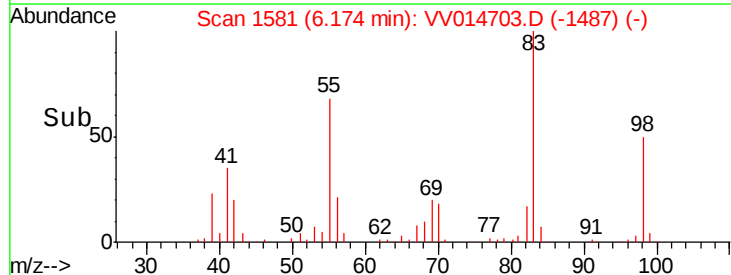
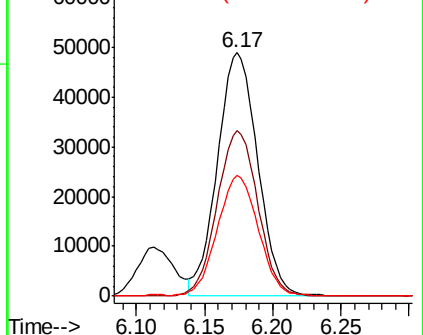


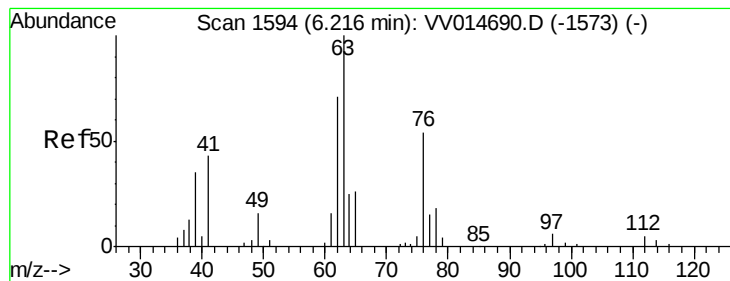
#35
 Methylcyclohexane
 Concen: 44.724 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Tgt Ion: 83 Resp: 100549
 Ion Ratio Lower Upper
 83 100
 55 68.0 56.1 84.1
 98 50.4 40.4 60.6



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





#37

1,2-Dichloropropane

Concen: 43.661 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

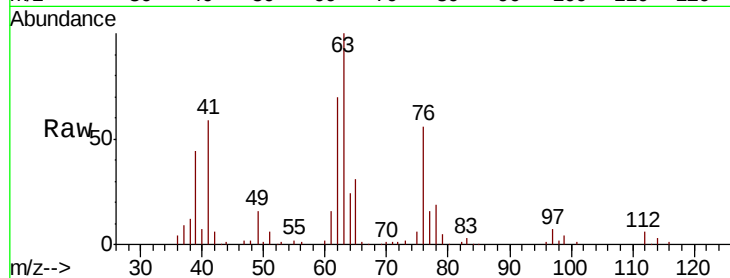
VSTD05075

Tot Ion: 63 Resp: 57780

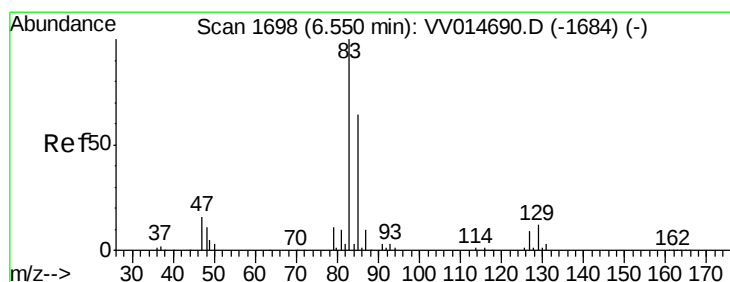
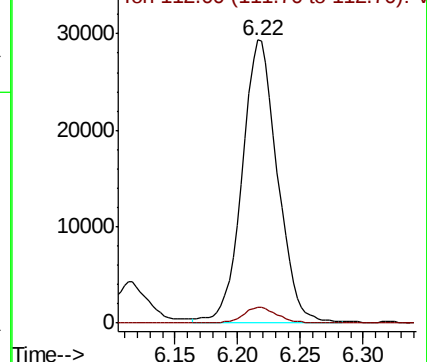
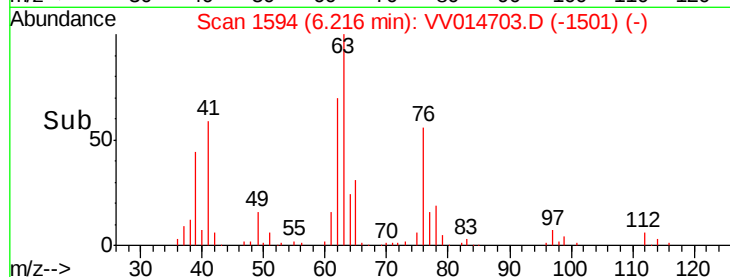
Ion Ratio Lower Upper

63 100

112 5.4 3.8 5.6



Abundance Ion 63.00 (62.70 to 63.70): VV014703.D (-1501) (-)



#38

Bromodichloromethane

Concen: 46.120 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

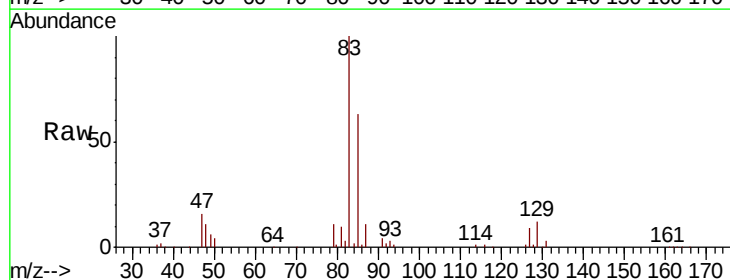
Tgt Ion: 83 Resp: 94070

Ion Ratio Lower Upper

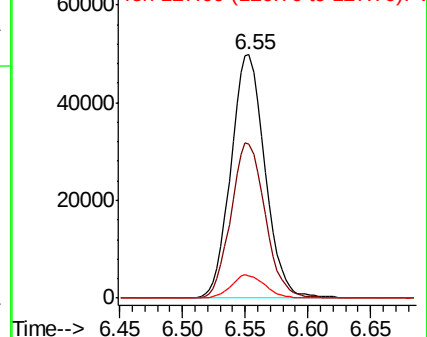
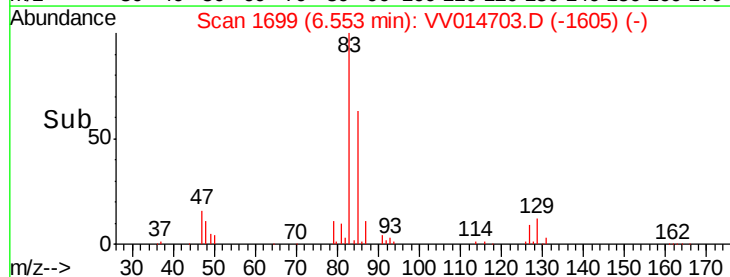
83 100

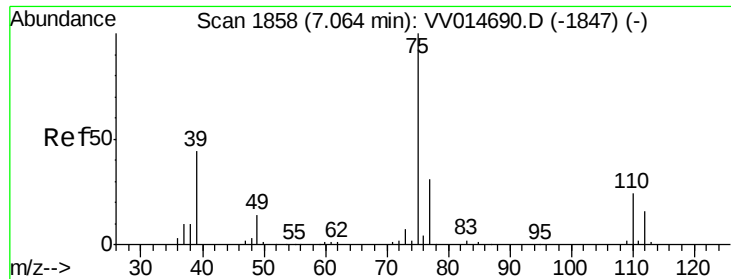
85 63.4 44.2 82.2

127 9.3 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV014703.D (-1605) (-)

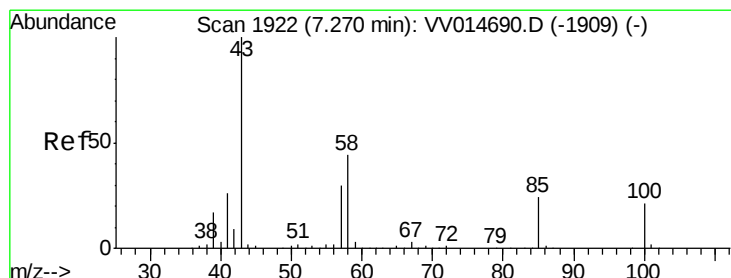
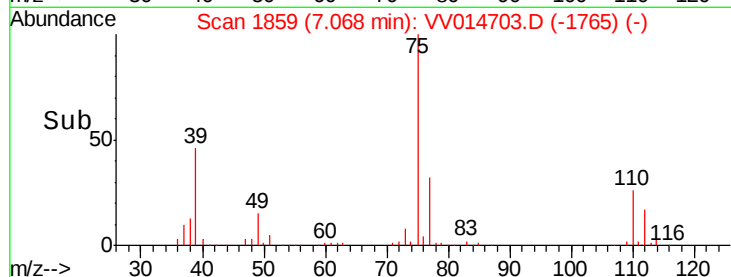
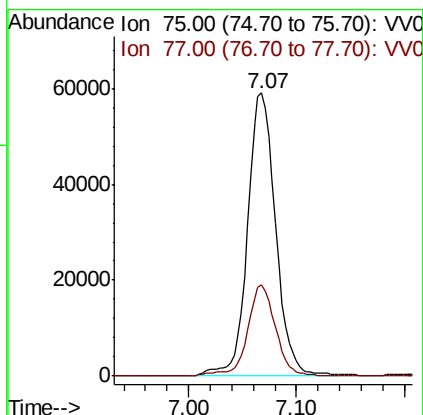
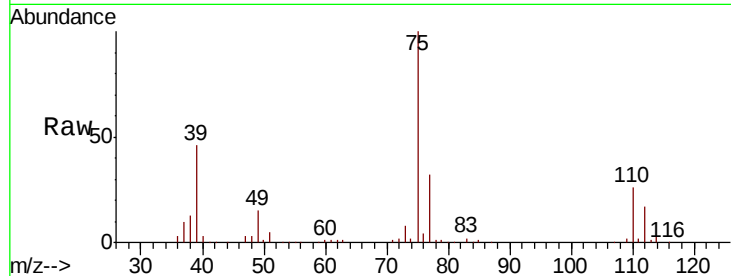




#39
 cis-1,3-Dichloropropene
 Concen: 44.981 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

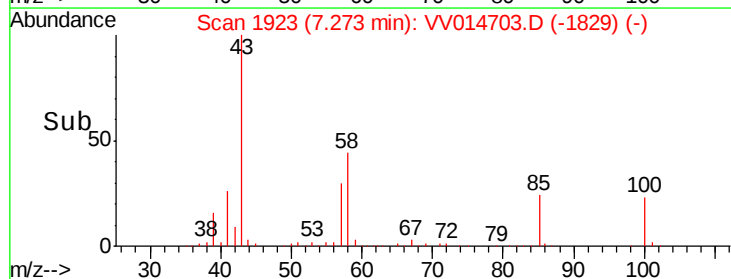
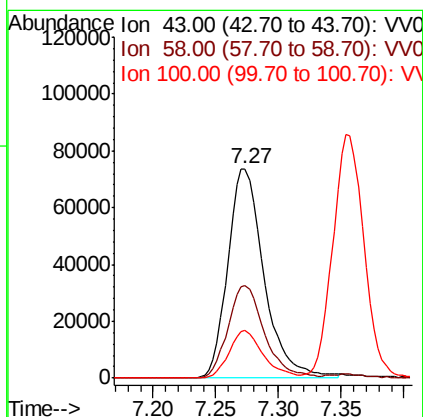
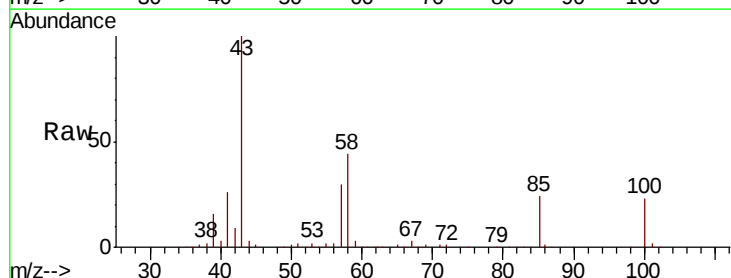
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

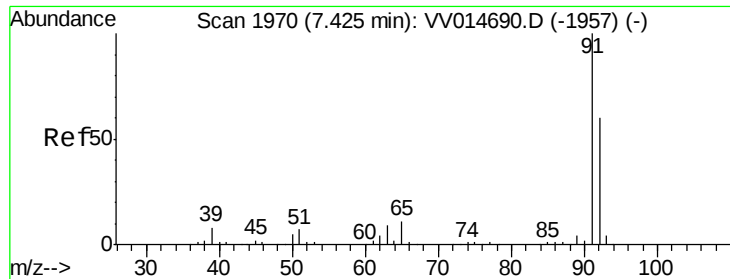
Tot Ion: 75 Resp: 106307
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 90.391 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Tgt Ion: 43 Resp: 148183
 Ion Ratio Lower Upper
 43 100
 58 44.4 35.7 53.5
 100 21.6 16.8 25.2





#42

Toluene

Concen: 45.322 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

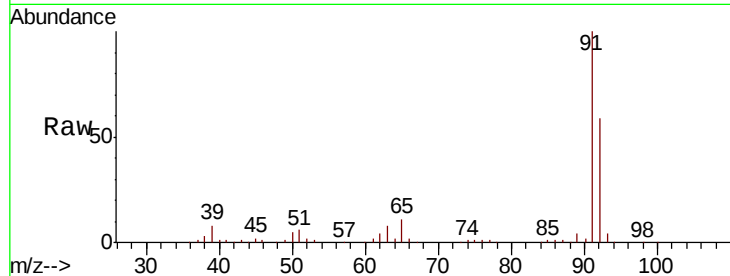
VSTD05075

Tot Ion: 91 Resp: 265119

Ion Ratio Lower Upper

91 100

92 59.0 41.9 77.7



Abundance Ion 91.00 (90.70 to 91.70): VV014690.D (-1957) (-)

Ion 92.00 (91.70 to 92.70): VV014690.D (-1957) (-)

7.43

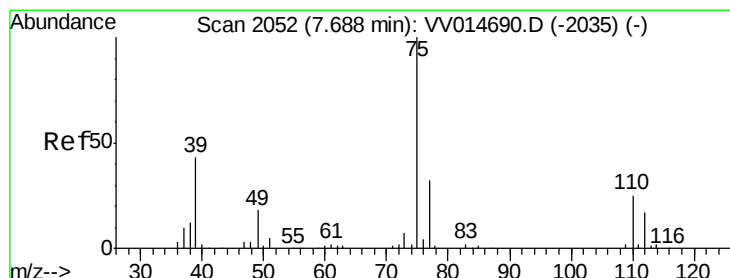
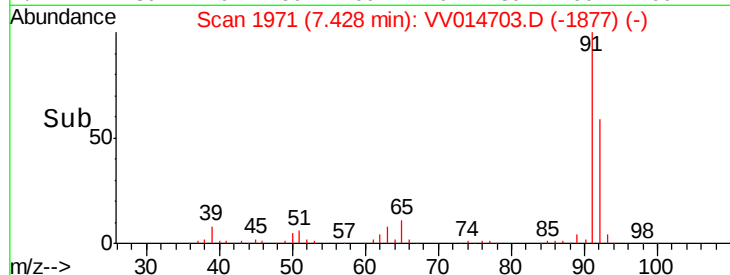
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 45.983 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014703.D

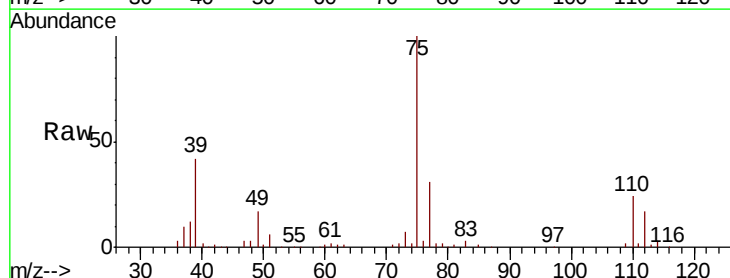
Acq: 24 Feb 2020 16:39

Tgt Ion: 75 Resp: 98596

Ion Ratio Lower Upper

75 100

77 31.5 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VV014690.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV014690.D (-2035) (-)

7.69

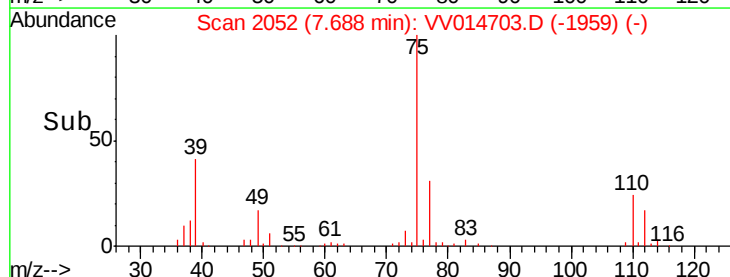
60000

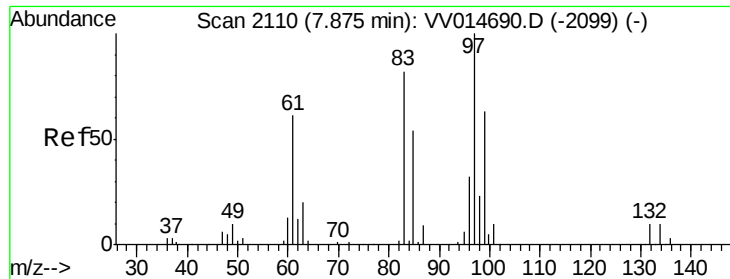
40000

20000

0

Time-->

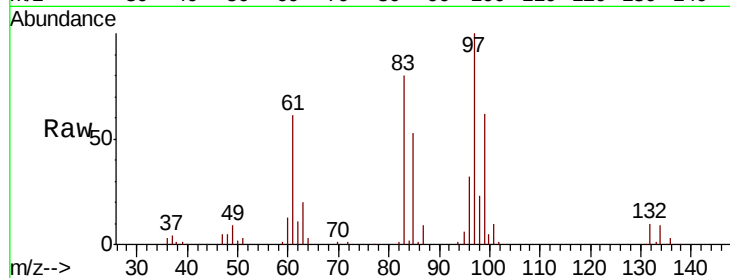




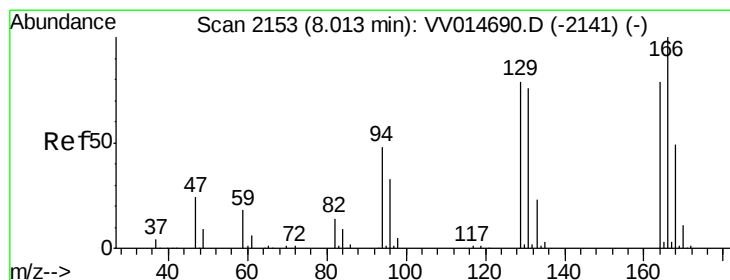
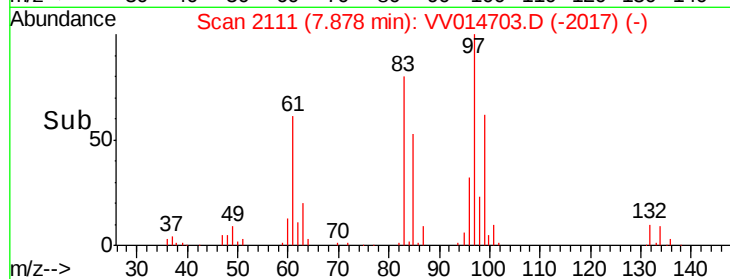
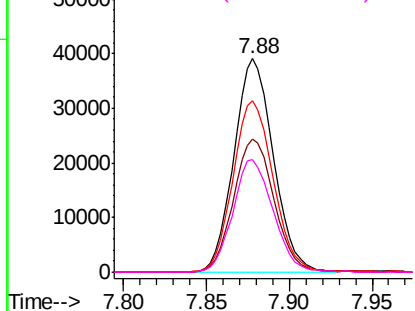
#45
 1,1,2-Trichloroethane
 Concen: 45.724 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tot Ion: 97 Resp: 64766
 Ion Ratio Lower Upper
 97 100
 99 62.5 43.7 81.1
 83 80.3 57.3 106.5
 85 53.0 37.1 68.9

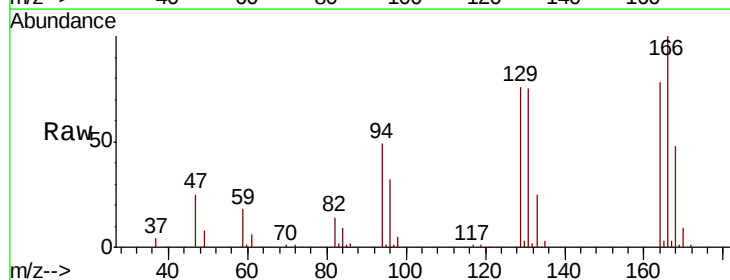


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

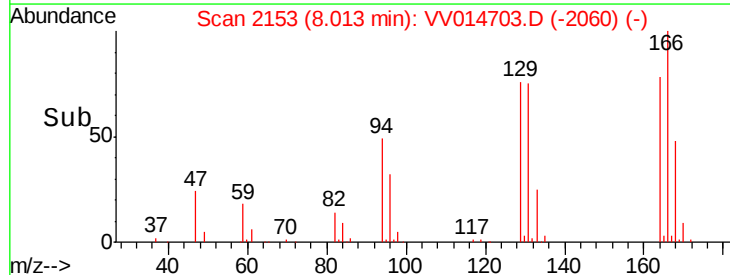
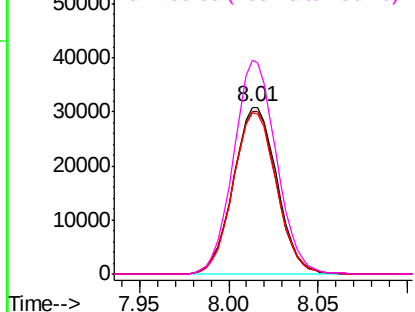


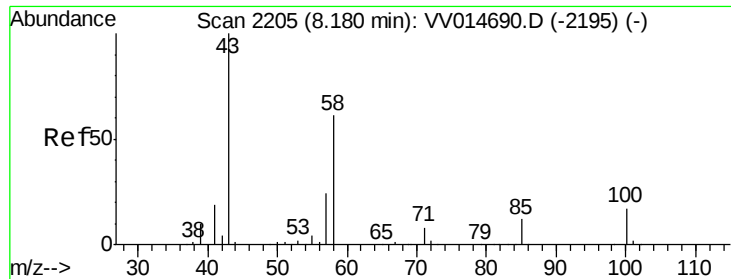
#46
 Tetrachloroethene
 Concen: 45.937 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Tgt Ion: 164 Resp: 52342
 Ion Ratio Lower Upper
 164 100
 129 97.5 70.3 130.7
 131 96.8 66.8 124.0
 166 128.3 88.8 165.0



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

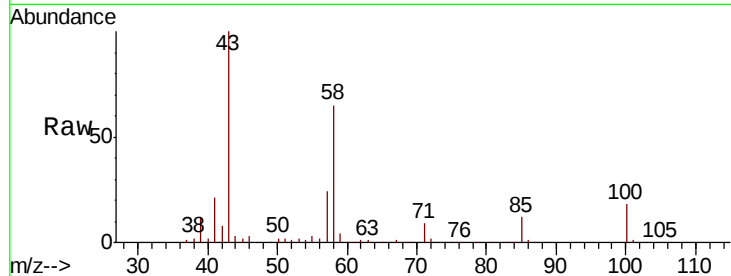




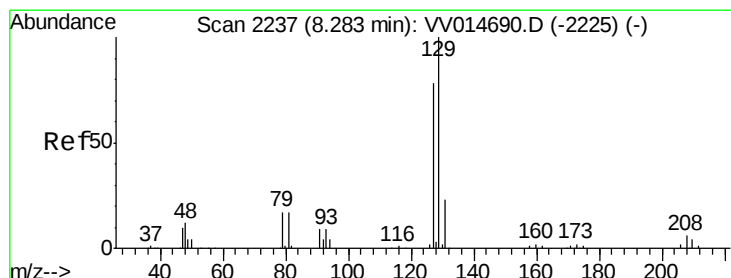
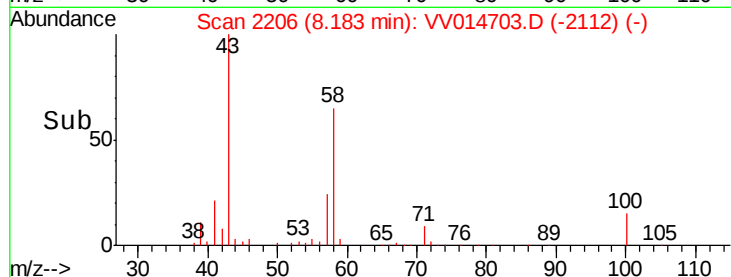
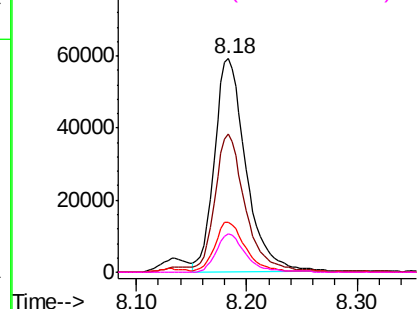
#48
2-Hexanone
Concen: 90.640 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion: 43 Resp: 116544
Ion Ratio Lower Upper
43 100
58 63.2 49.4 74.2
57 22.3 17.8 26.8
100 17.1 13.1 19.7

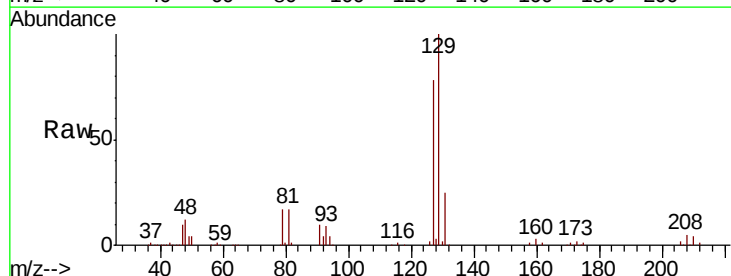


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

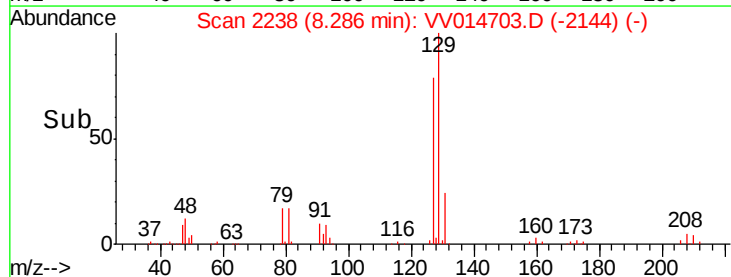
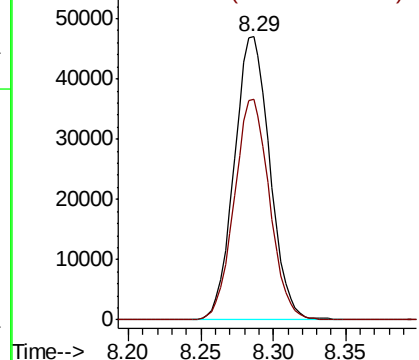


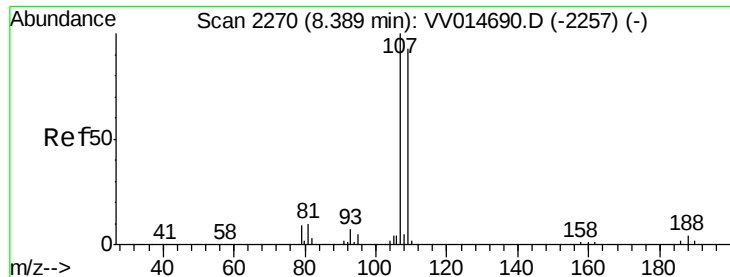
#49
Dibromochloromethane
Concen: 47.533 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion: 129 Resp: 80013
Ion Ratio Lower Upper
129 100
127 78.2 54.5 101.3



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

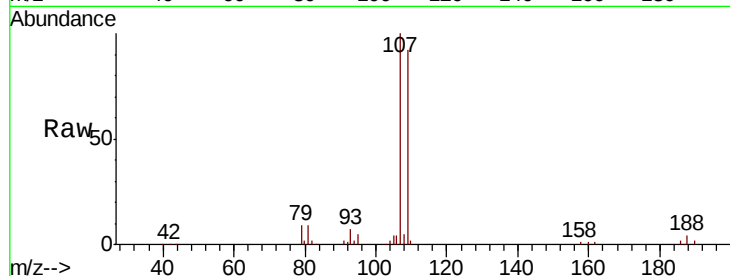




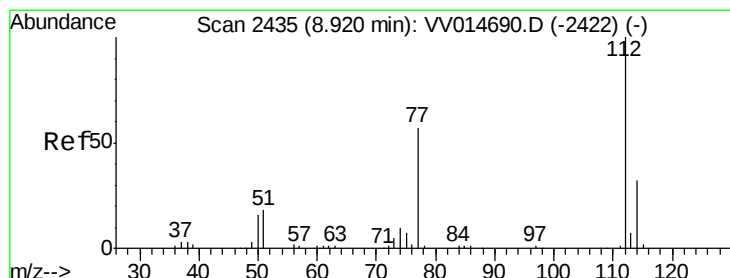
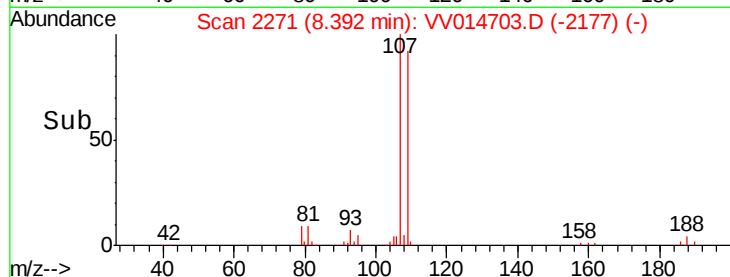
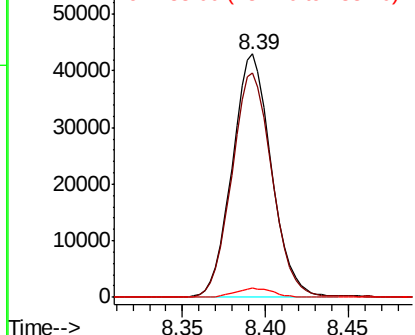
#50
 1,2-Dibromoethane
 Concen: 45.345 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tot Ion:107 Resp: 70766
 Ion Ratio Lower Upper
 107 100
 109 92.4 66.1 122.7
 188 3.6 2.7 4.1

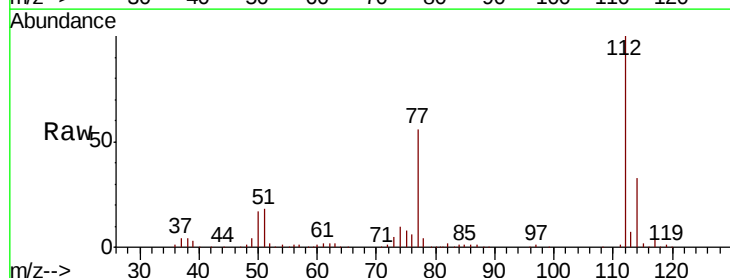


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

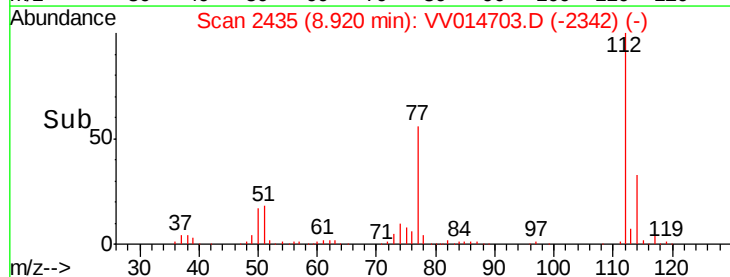
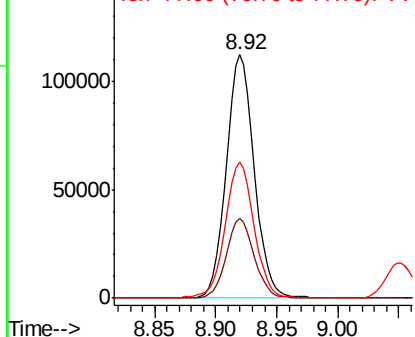


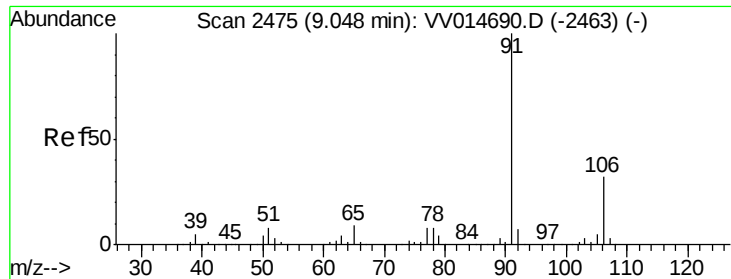
#51
 Chlorobenzene
 Concen: 45.260 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Tgt Ion:112 Resp: 180412
 Ion Ratio Lower Upper
 112 100
 114 32.9 22.5 41.7
 77 55.7 45.8 68.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 45.804 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

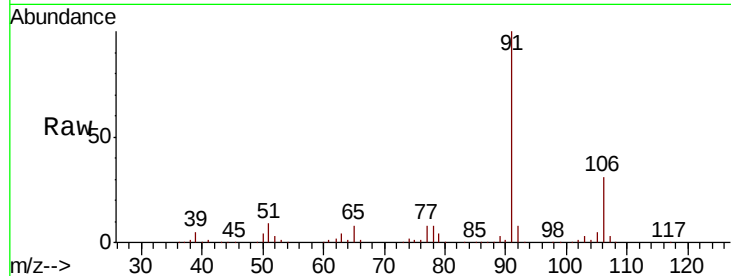
VSTD05075

Tot Ion: 91 Resp: 307068

Ion Ratio Lower Upper

91 100

106 30.8 21.7 40.3



Abundance Ion 91.00 (90.70 to 91.70): VV014690.D (-2463) (-)

Ion 106.00 (105.70 to 106.70): VV014703.D (-2382) (-)

200000

150000

100000

50000

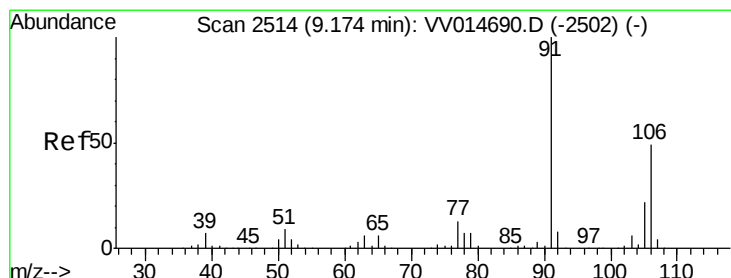
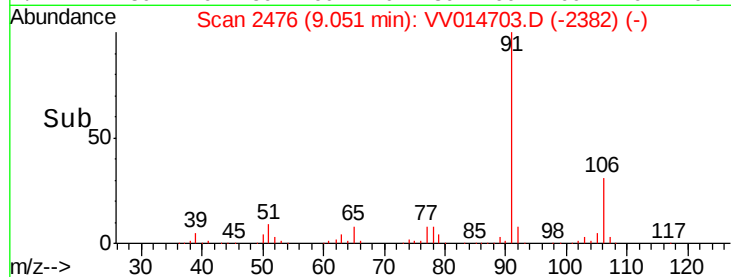
0

9.05

9.10

9.15

Time-->



#53

m,p-Xylene

Concen: 45.497 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014703.D

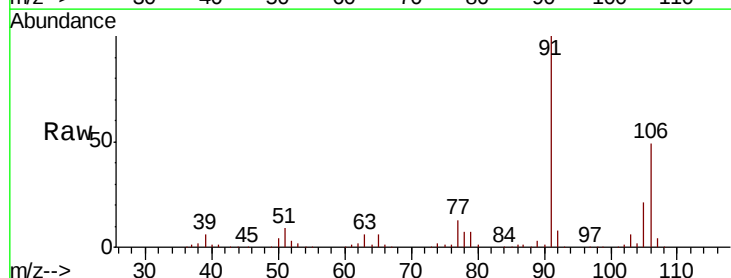
Acq: 24 Feb 2020 16:39

Tgt Ion: 106 Resp: 117926

Ion Ratio Lower Upper

106 100

91 202.4 139.9 259.9



Abundance Ion 106.00 (105.70 to 106.70): VV014690.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV014703.D (-2421) (-)

150000

100000

50000

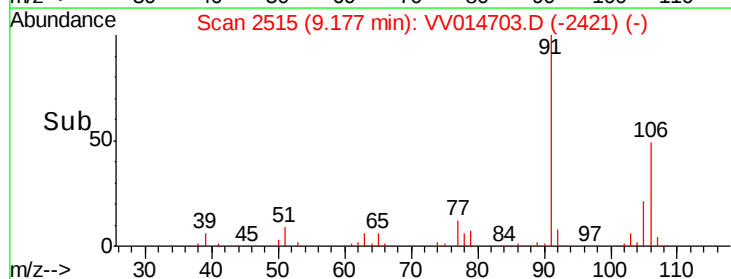
0

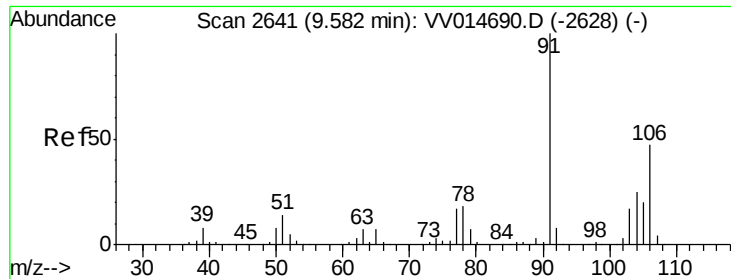
9.18

9.20

9.25

Time-->

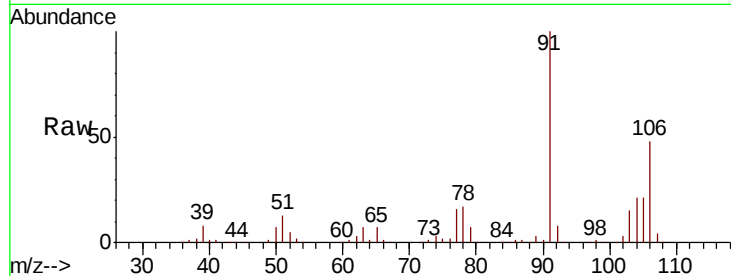




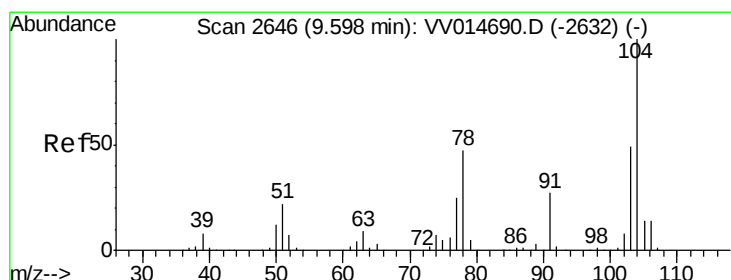
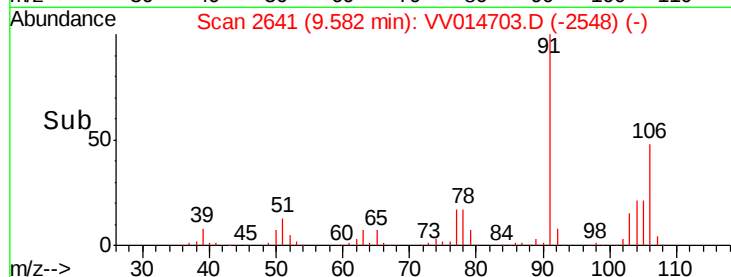
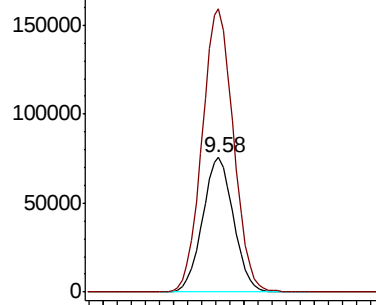
#54
o-xylene
Concen: 46.163 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Tot Ion:106 Resp: 116451
Ion Ratio Lower Upper
106 100
91 210.3 152.7 283.5

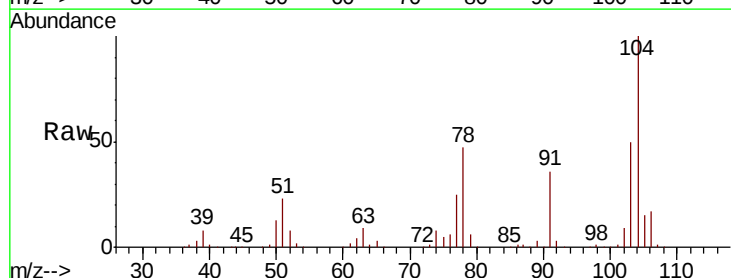


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

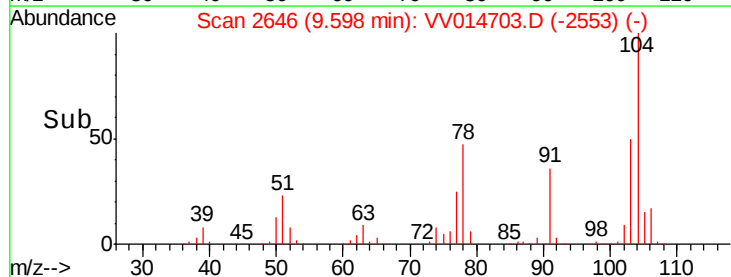
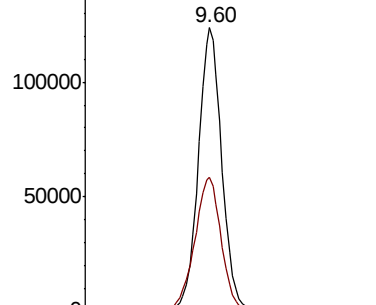


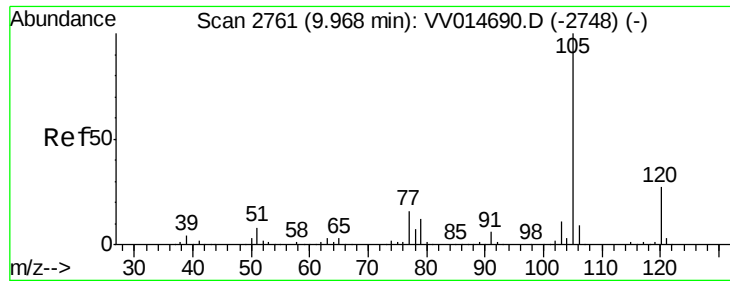
#55
Styrene
Concen: 46.773 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. -0.00 min
Lab File: VV014703.D
Acq: 24 Feb 2020 16:39

Tgt Ion:104 Resp: 196726
Ion Ratio Lower Upper
104 100
78 47.2 31.8 59.0



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





#56

Isopropylbenzene

Concen: 46.956 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

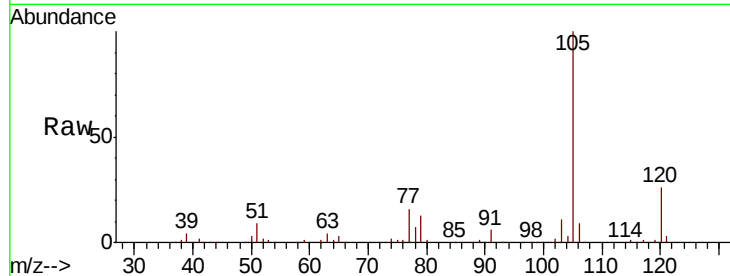
Tot Ion:105 Resp: 313136

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.2

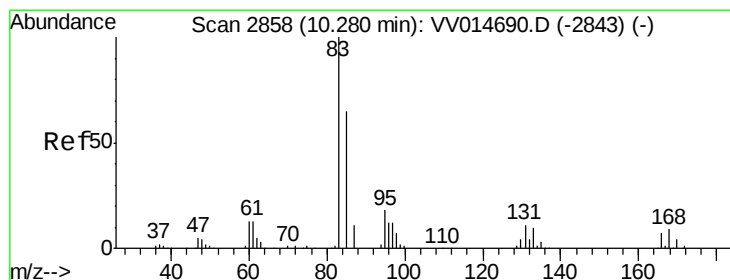
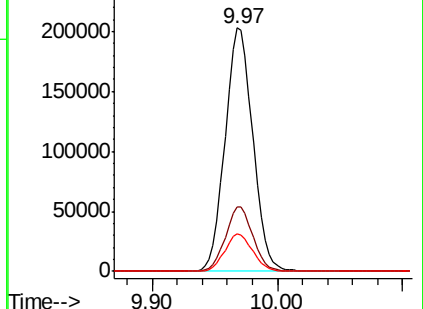
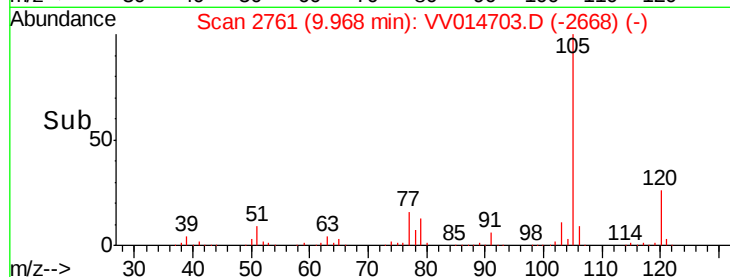
77 15.5 12.6 18.8



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: 46.743 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

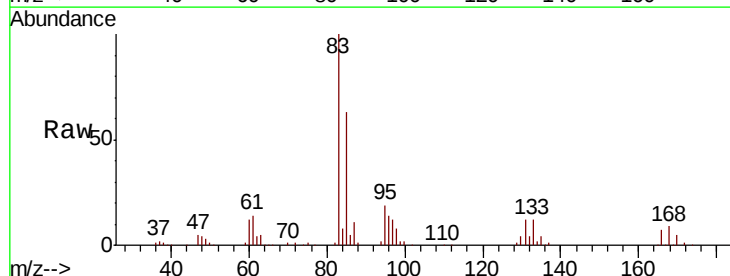
Tgt Ion: 83 Resp: 101941

Ion Ratio Lower Upper

83 100

85 62.9 45.7 84.9

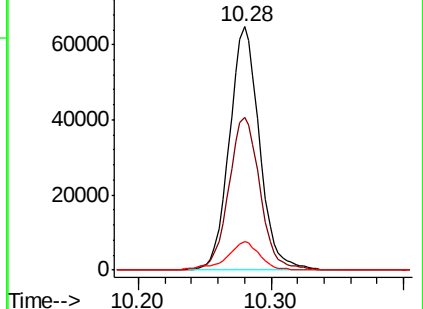
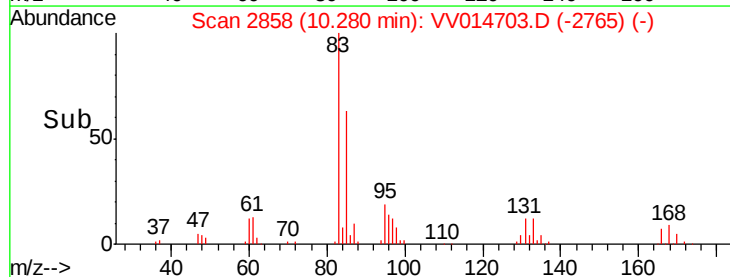
131 11.6 8.8 13.2

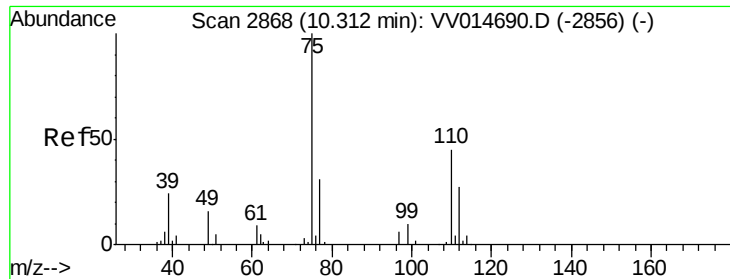


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.660 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

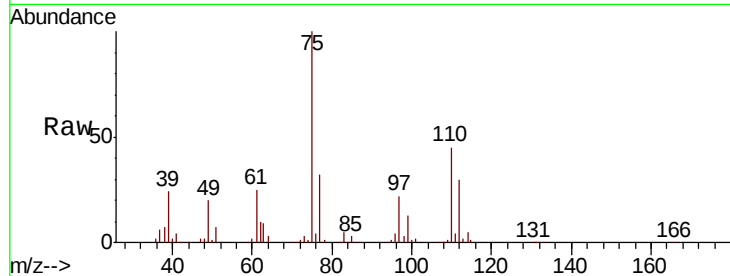
VSTD05075

Tot Ion: 75 Resp: 83546

Ion Ratio Lower Upper

75 100

77 32.5 25.7 38.5

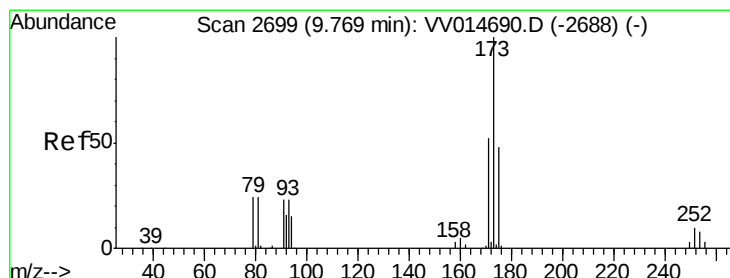
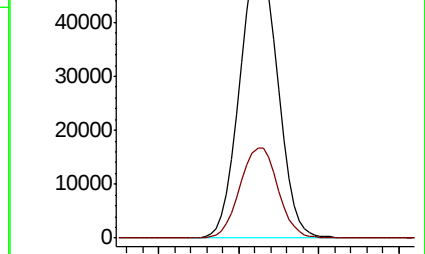
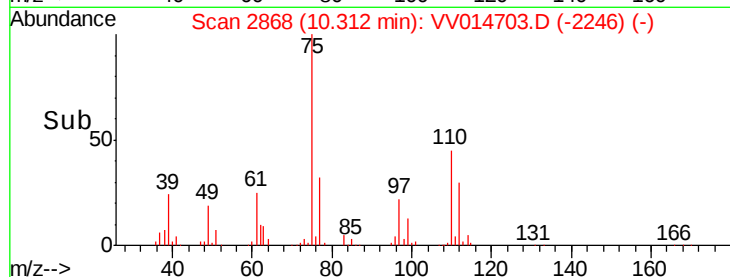


Abundance Ion 75.00 (74.70 to 75.70): VV014690.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV014690.D (-2856) (-)

10.31

Time-->



#61

Bromoform

Concen: 47.806 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

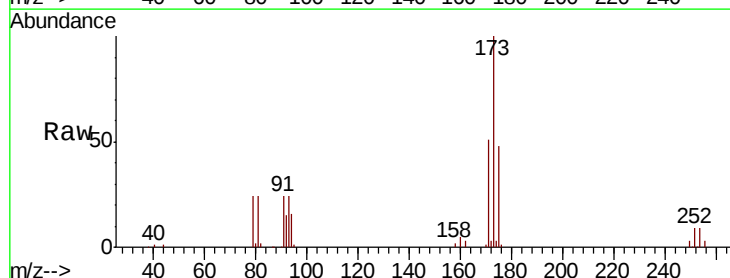
Tgt Ion: 173 Resp: 55819

Ion Ratio Lower Upper

173 100

175 48.7 38.8 58.2

254 8.5 6.7 10.1



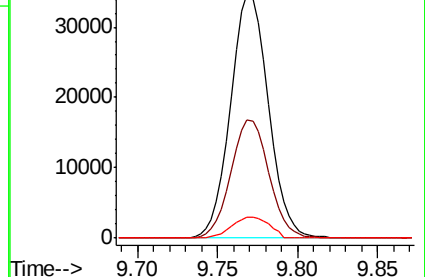
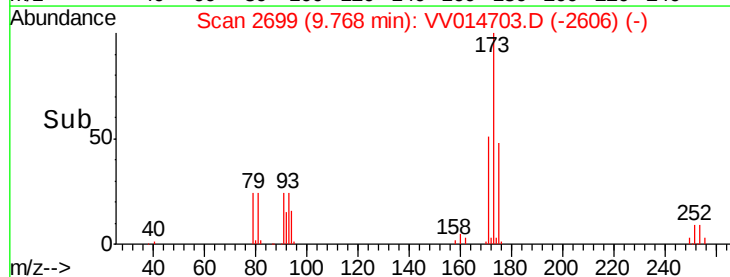
Abundance Ion 173.00 (172.70 to 173.70): VV014690.D (-2688) (-)

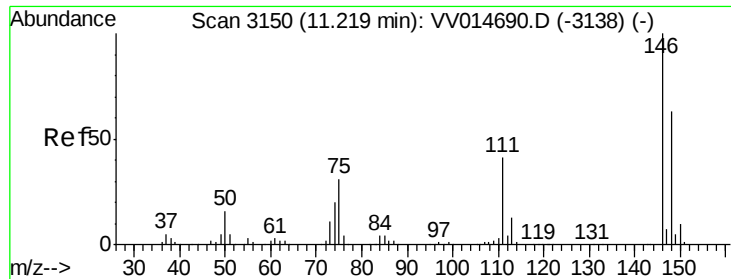
Ion 175.00 (174.70 to 175.70): VV014690.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV014690.D (-2688) (-)

9.77

Time-->





#62

1,3-Dichlorobenzene

Concen: 45.257 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

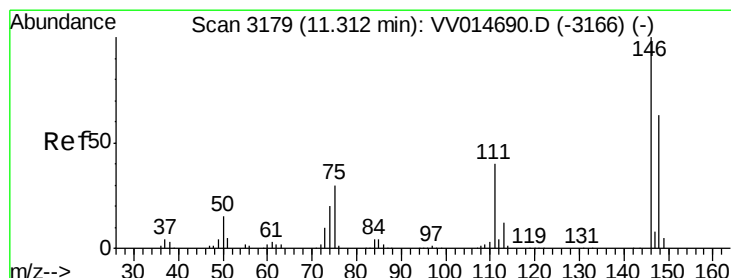
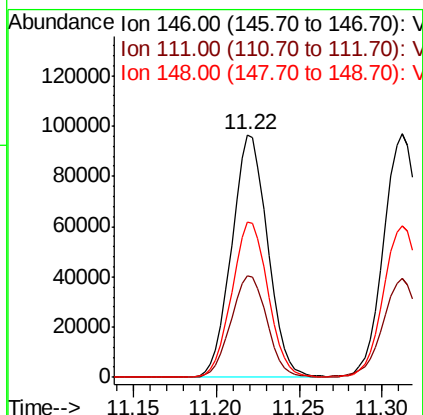
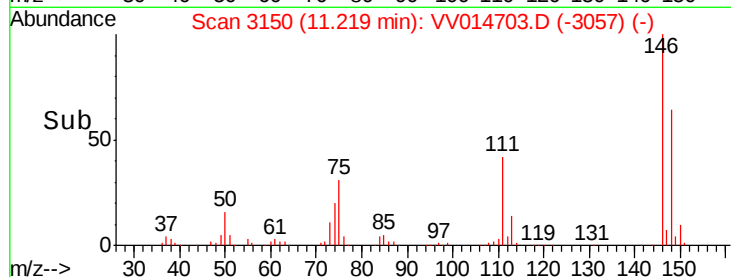
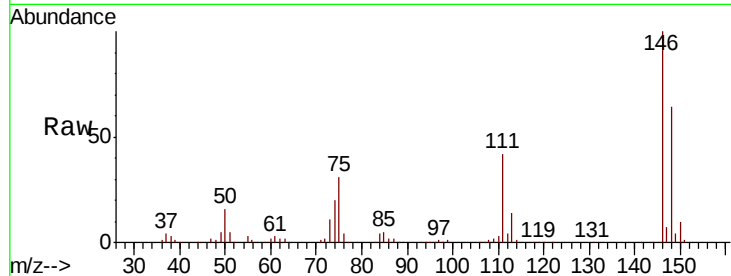
Tot Ion:146 Resp: 145941

Ion Ratio Lower Upper

146 100

111 42.0 29.0 53.9

148 63.9 44.2 82.0



#63

1,4-Dichlorobenzene

Concen: 45.099 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

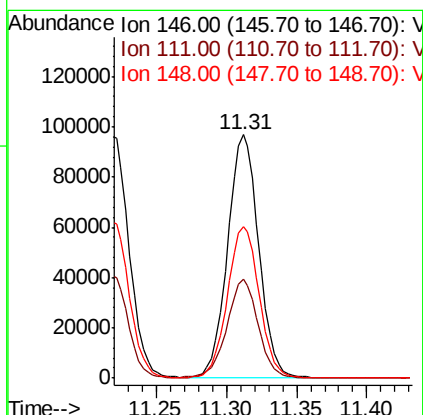
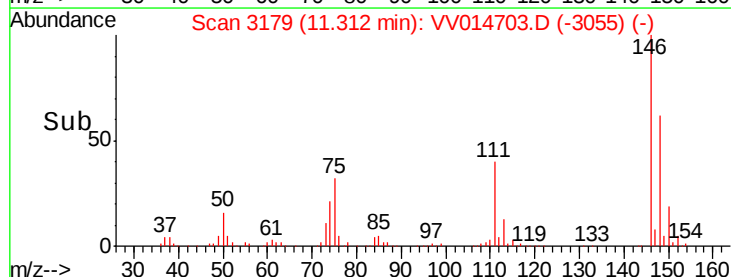
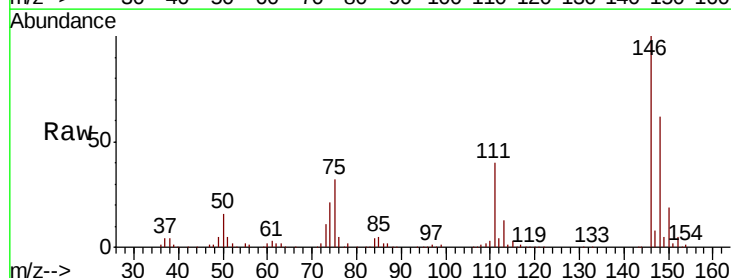
Tgt Ion:146 Resp: 148835

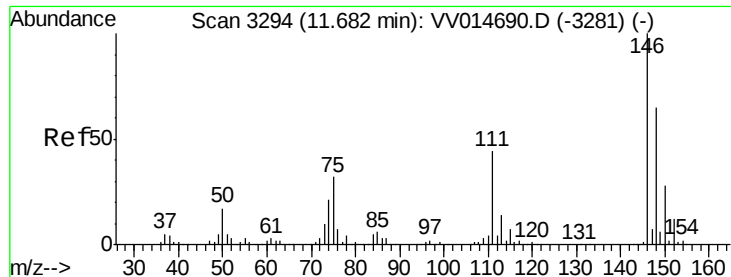
Ion Ratio Lower Upper

146 100

111 40.5 27.6 51.4

148 62.5 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 46.068 ug/L

RT: 11.68 min Scan# 3294

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

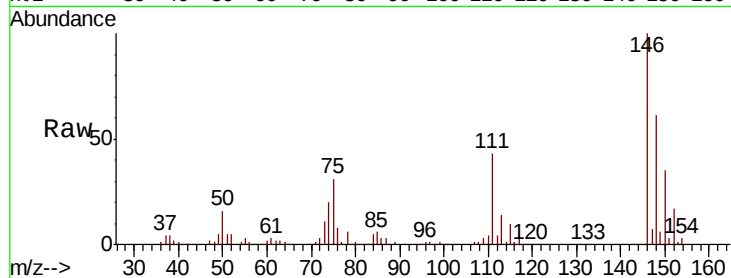
Tot Ion:146 Resp: 147919

Ion Ratio Lower Upper

146 100

111 43.3 34.4 51.6

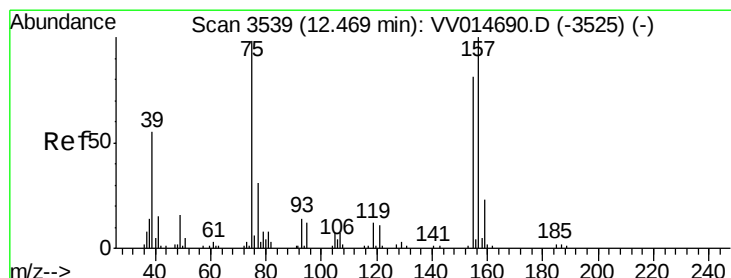
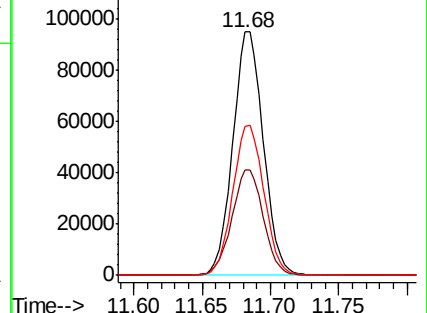
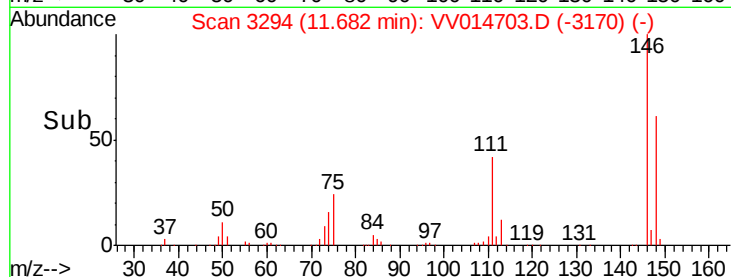
148 61.3 51.6 77.4



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: 46.552 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

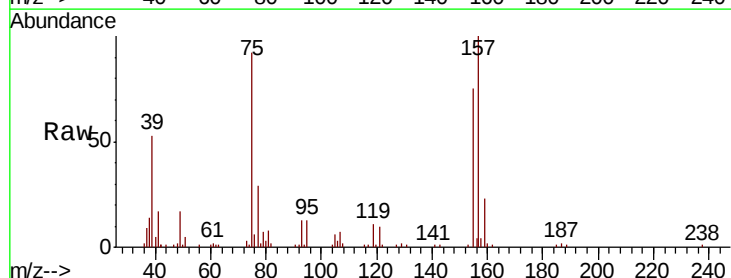
Tgt Ion: 75 Resp: 25415

Ion Ratio Lower Upper

75 100

155 81.2 62.6 93.8

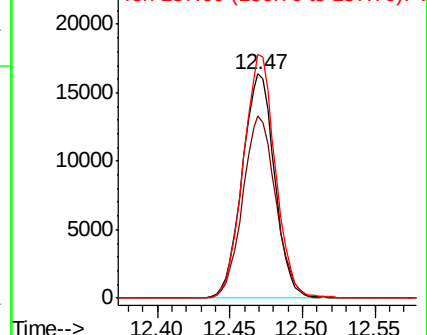
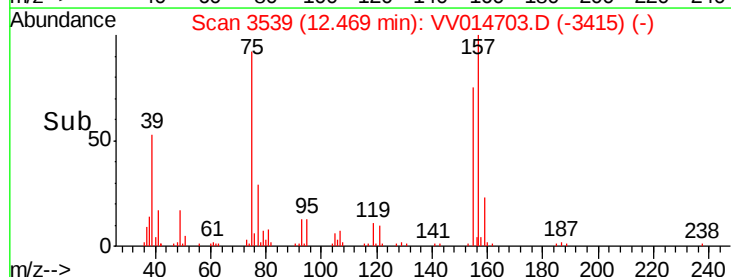
157 108.6 84.7 127.1

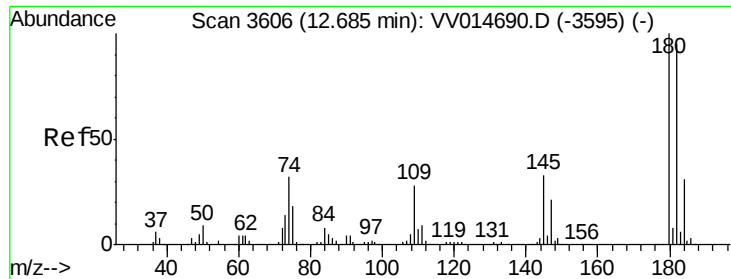


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

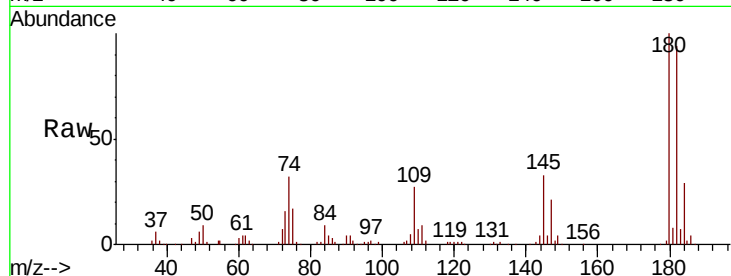




#67
 1,3,5-Trichlorobenzene
 Concen: 45.516 ug/L
 RT: 12.68 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.9	113.9
184	29.7	23.8	35.8
145	32.2	25.5	38.3



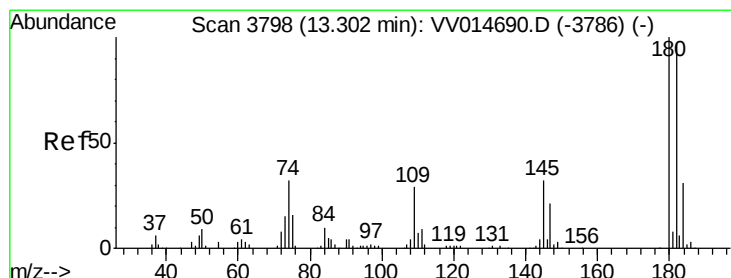
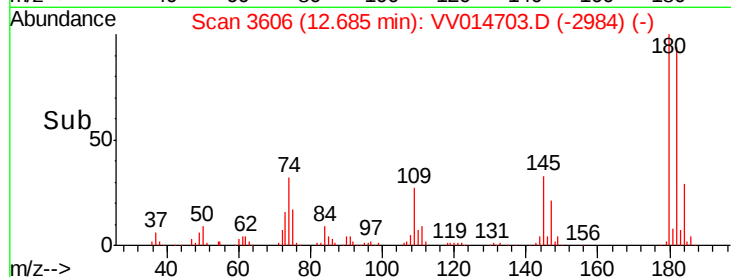
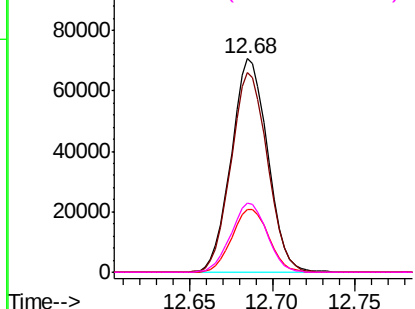
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

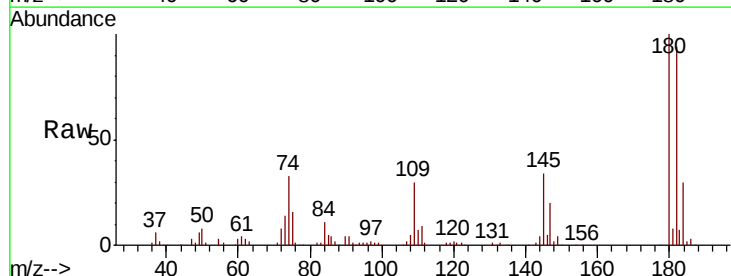
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 45.228 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. -0.00 min
 Lab File: VV014703.D
 Acq: 24 Feb 2020 16:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	75.3	112.9
145	32.9	25.9	38.9

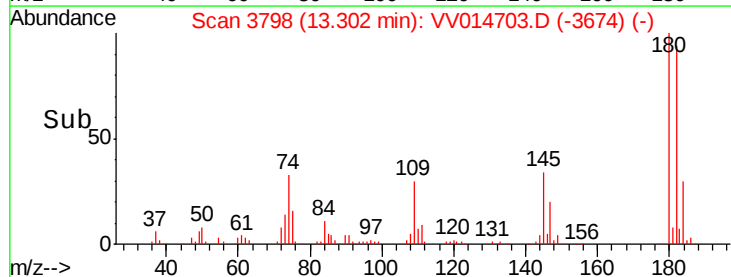
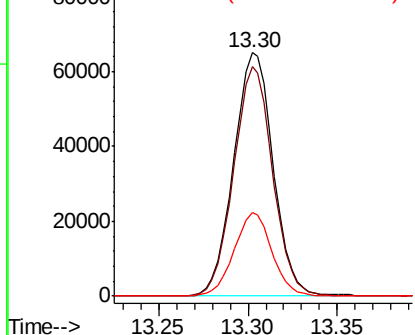


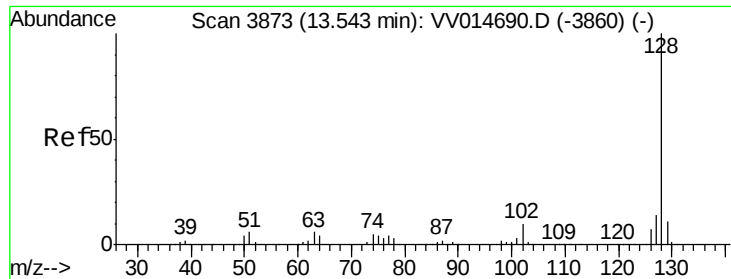
Abundance

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: 44.535 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

Instrument :

MSVOA_V

ClientSampled :

VSTD05075

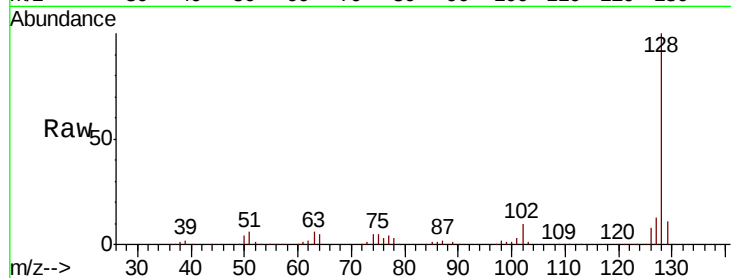
Tot Ion:128 Resp: 332547

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

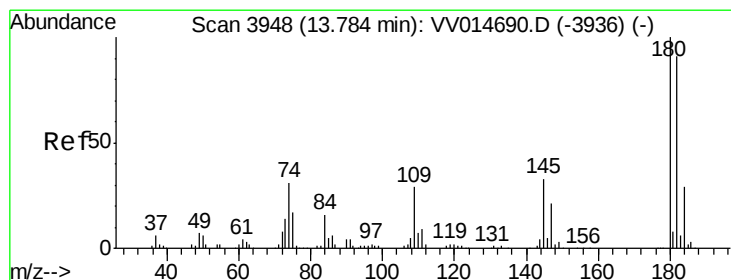
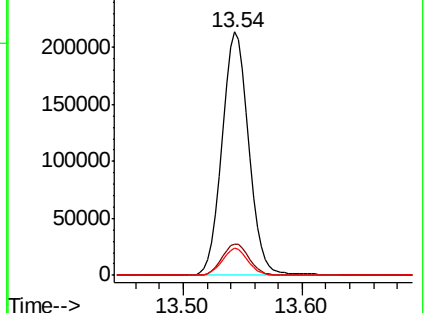
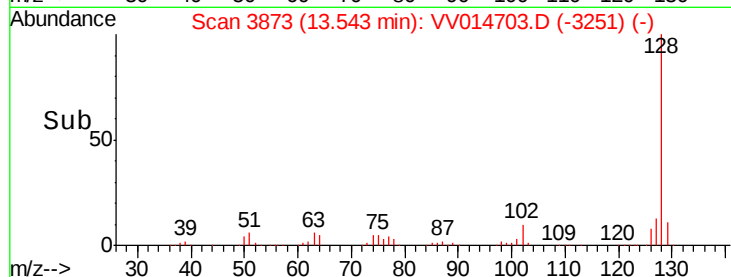
129 10.7 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 43.965 ug/L

RT: 13.78 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VV014703.D

Acq: 24 Feb 2020 16:39

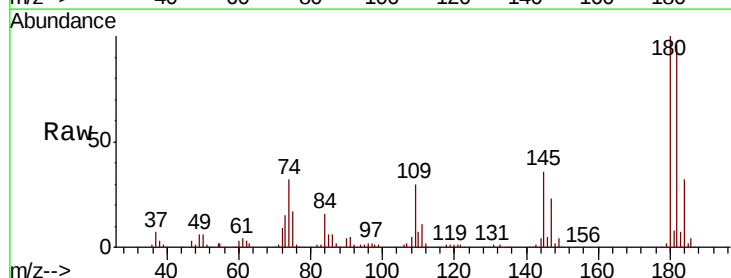
Tgt Ion:180 Resp: 100428

Ion Ratio Lower Upper

180 100

182 95.6 75.4 113.2

145 34.9 28.2 42.2



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

