

Data File : VV014002.D
Acq On : 10 Dec 2019 21:28
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

Quant Time: Dec 11 00:31:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 11 00:25:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	636176	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	594955	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	315793	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	167066	45.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.82%
7) Chloroethane-d5	1.57	69	177631	46.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.50%
11) 1,1-Dichloroethene-d2	2.13	63	388734	47.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.56%
21) 2-Butanone-d5	3.92	46	246520	95.19	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.19%
24) Chloroform-d	4.39	84	358531	46.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.07	65	220262	44.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.98%
32) Benzene-d6	5.09	84	706279	45.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.62%
36) 1,2-Dichloropropane-d6	6.11	67	211837	45.78	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.56%
41) Toluene-d8	7.35	98	635325	45.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	7.66	79	95180	42.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.54%
47) 2-Hexanone-d5	8.13	63	161850	93.66	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.66%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	293008	43.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.46%
64) 1,2-Dichlorobenzene-d4	11.67	152	275885	44.48	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.96%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	246830	43.575	ug/L	99
3) Chloromethane	1.25	50	269214	51.985	ug/L	99
5) Vinyl chloride	1.32	62	271238	50.218	ug/L	98
6) Bromomethane	1.51	94	151932	46.525	ug/L	100
8) Chloroethane	1.59	64	183317	51.009	ug/L	100
9) Trichlorofluoromethane	1.76	101	423778	50.446	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	237427	49.623	ug/L	99
12) 1,1-Dichloroethene	2.14	96	233262	50.471	ug/L	94
13) Acetone	2.18	43	259957	68.498	ug/L	99
14) Carbon disulfide	2.31	76	627399	51.477	ug/L	99
15) Methyl Acetate	2.45	43	269825	57.690	ug/L	99
16) Methylene chloride	2.53	84	279509	58.076	ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	221863	49.078	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	686557	52.334	ug/L	99
19) 1,1-Dichloroethane	3.22	63	389312	47.801	ug/L	99
22) 2-Butanone	4.00	43	311185	85.428	ug/L	95
23) Bromochloromethane	4.29	128	130800	48.360	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.42	83	418749	48.093	ug/L	100
27) 1,2-Dichloroethane	5.17	62	306573	48.864	ug/L	100
29) Cyclohexane	4.72	56	336375	48.392	ug/L	99
30) 1,1,1-Trichloroethane	4.65	97	357951	49.837	ug/L	100
31) Carbon tetrachloride	4.87	117	314526	49.023	ug/L	99
33) Benzene	5.14	78	895026	50.516	ug/L	100
34) Trichloroethene	5.96	95	242578	51.047	ug/L	99
35) Methylcyclohexane	6.17	83	340147	47.706	ug/L	98
37) 1,2-Dichloropropane	6.22	63	227006	52.937	ug/L	100
38) Bromodichloromethane	6.55	83	311392	51.204	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	331972	49.176	ug/L	98
40) 4-Methyl-2-pentanone	7.26	43	575739	103.250	ug/L	99
42) Toluene	7.43	91	921780	50.423	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	289454	47.350	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	224327	52.702	ug/L	98
46) Tetrachloroethene	8.01	164	205654	47.959	ug/L	95
48) 2-Hexanone	8.18	43	447727	100.373	ug/L	94
49) Dibromochloromethane	8.29	129	259765	49.925	ug/L	100
50) 1,2-Dibromoethane	8.39	107	239607	51.100	ug/L	99
51) Chlorobenzene	8.92	112	625650	49.607	ug/L	98
52) Ethylbenzene	9.05	91	1008718	50.054	ug/L	100
53) m,p-Xylene	9.18	106	393253	50.461	ug/L	98
54) o-xylene	9.58	106	388843	51.031	ug/L	98
55) Styrene	9.60	104	659347	50.154	ug/L	98
56) Isopropylbenzene	9.97	105	1016910	49.650	ug/L	99
58) 1,1,1,2-Tetrachloroethane	10.28	83	325612	46.990	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	286166	49.314	ug/L	99
61) Bromoform	9.77	173	207116	53.615	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	504812	48.718	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	498808	46.564	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	507780	48.990	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	68465	47.529	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	382484	45.454	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	287083	37.811	ug/L	100
69) Naphthalene	13.55	128	487493	24.453	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	311391	39.217	ug/L	99

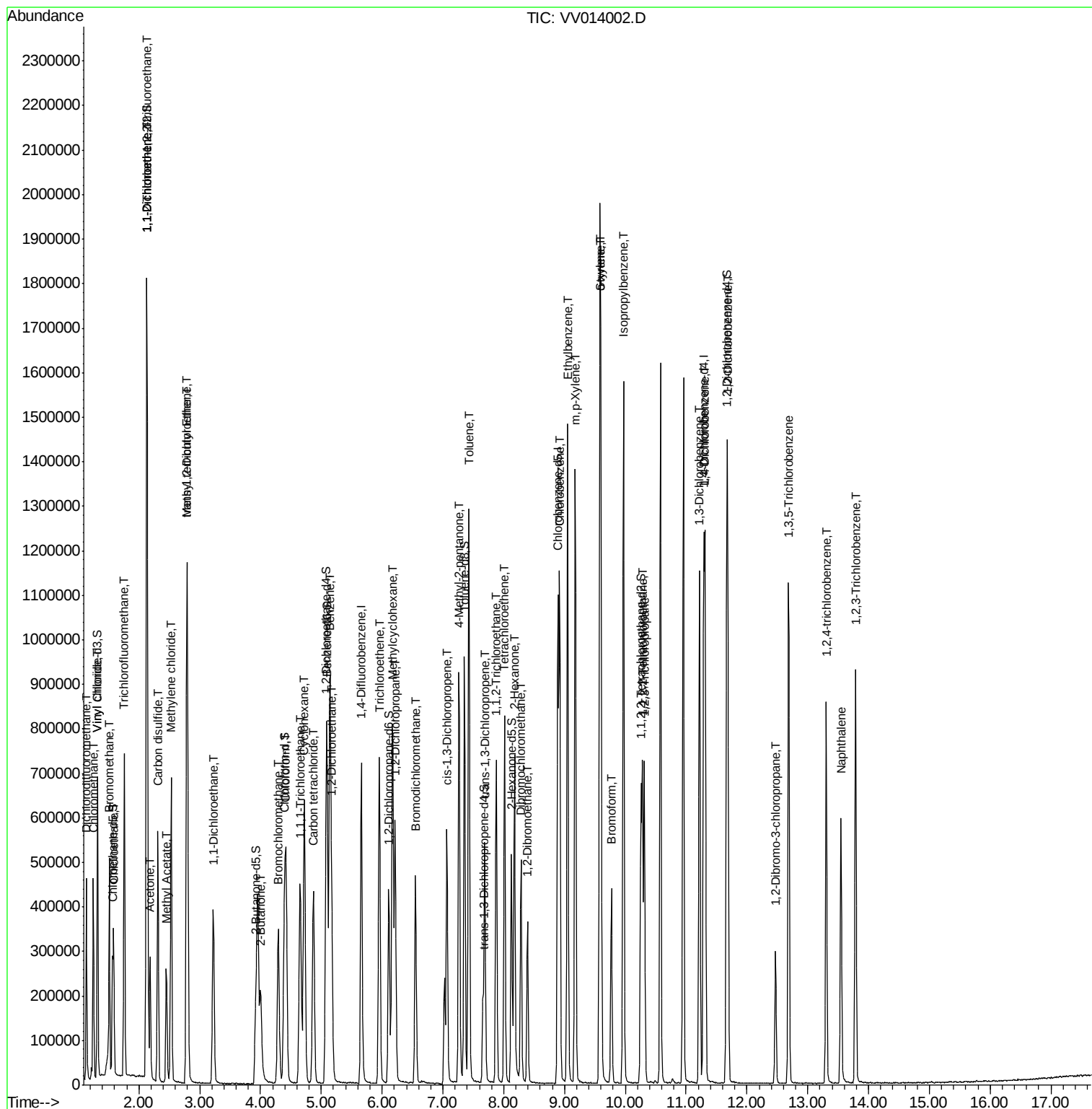
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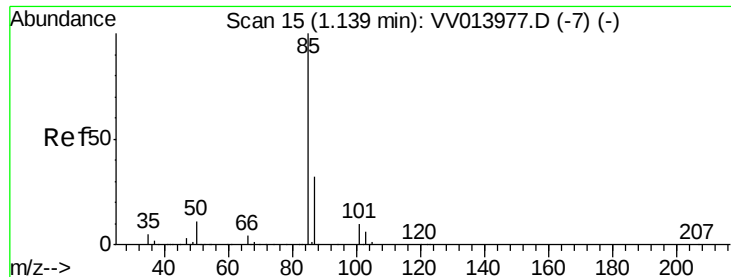
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#2

Dichlorodifluoromethane

Concen: 43.575 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

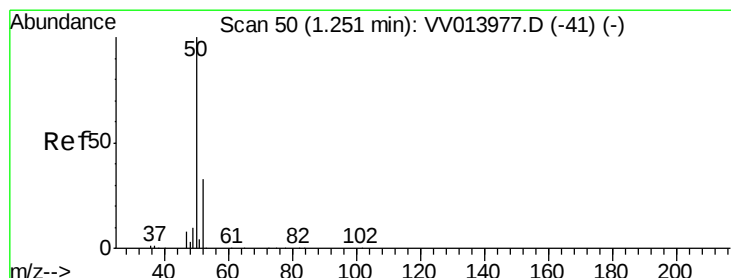
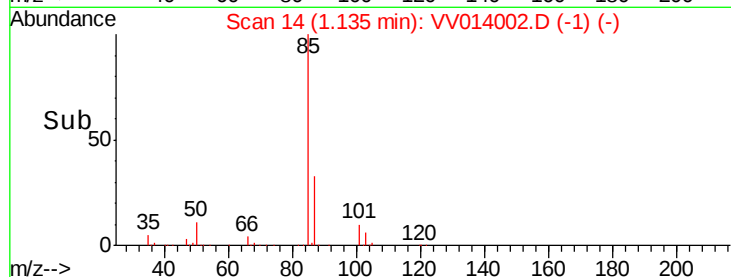
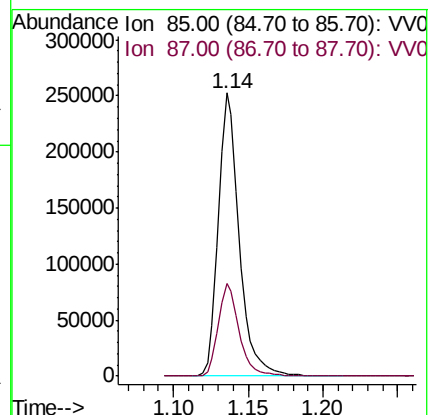
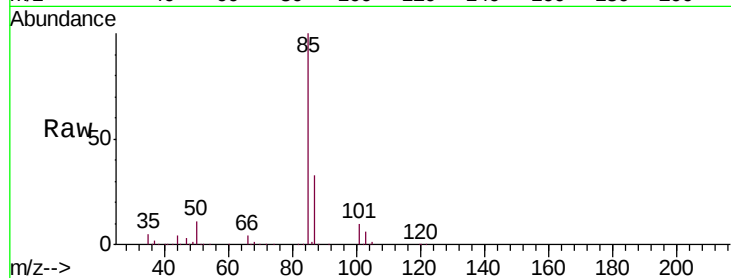
VSTD05076

Tgt Ion: 85 Resp: 246830

Ion Ratio Lower Upper

85 100

87 32.7 26.5 39.7



#3

Chloromethane

Concen: 51.985 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014002.D

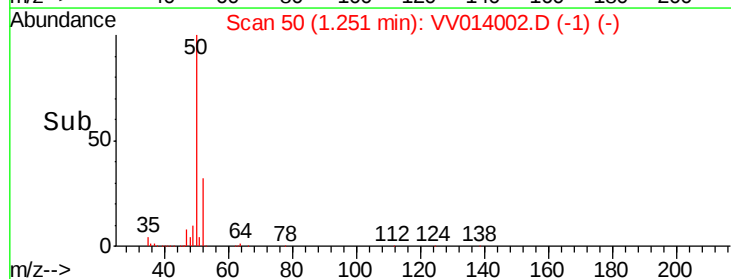
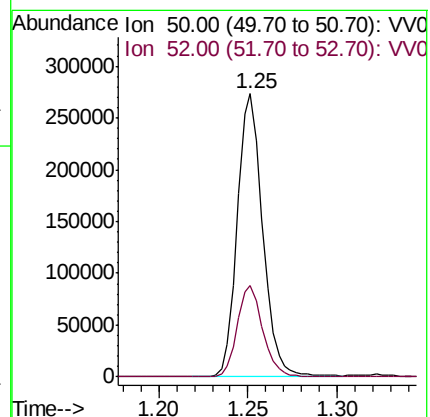
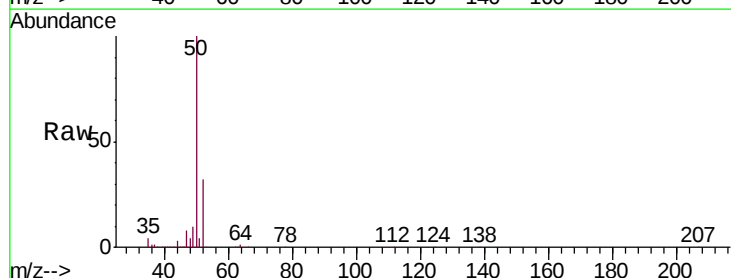
Acq: 10 Dec 2019 21:28

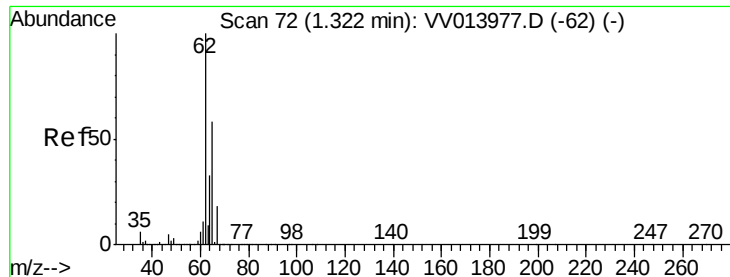
Tgt Ion: 50 Resp: 269214

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6





#5

Vinyl chloride

Concen: 50.218 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

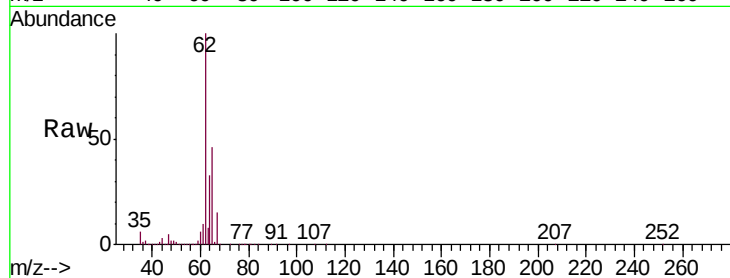
VSTD05076

Tgt Ion: 62 Resp: 271238

Ion Ratio Lower Upper

62 100

64 33.3 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

250000

200000

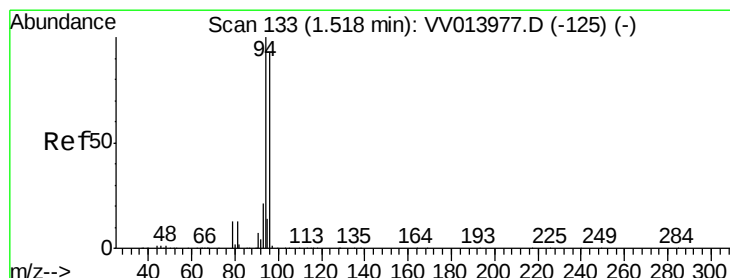
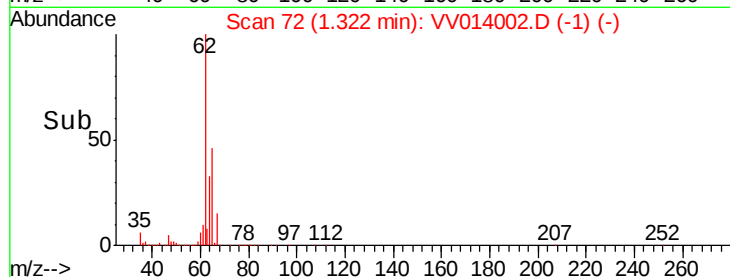
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 46.525 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV014002.D

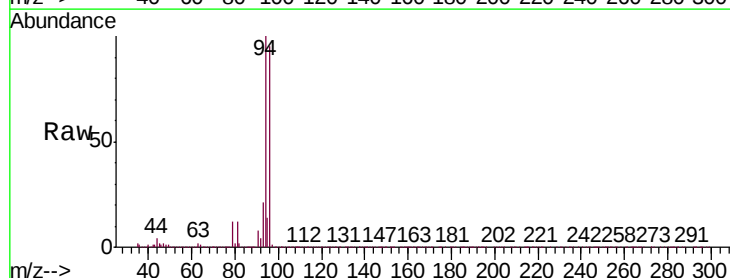
Acq: 10 Dec 2019 21:28

Tgt Ion: 94 Resp: 151932

Ion Ratio Lower Upper

94 100

96 94.6 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

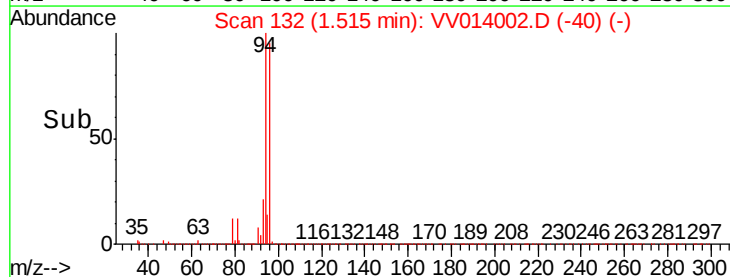
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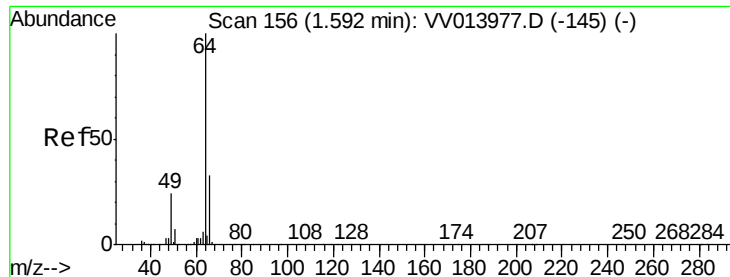
100000

50000

0

Time-->





#8

Chloroethane

Concen: 51.009 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

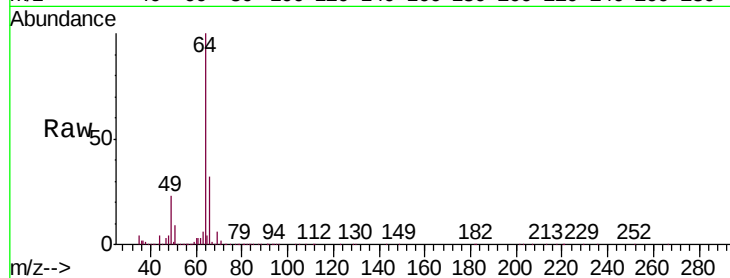
VSTD05076

Tgt Ion: 64 Resp: 183317

Ion Ratio Lower Upper

64 100

66 32.4 22.7 42.1



Abundance Ion 64.00 (63.70 to 64.70): VV013977.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV013977.D (-145) (-)

1.59

150000

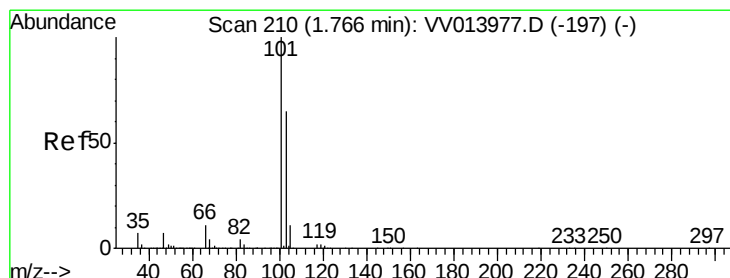
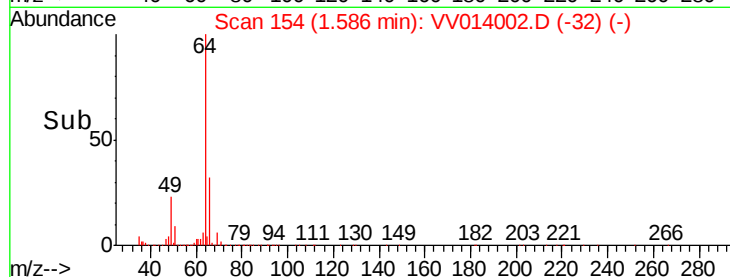
100000

50000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 50.446 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.01 min

Lab File: VV014002.D

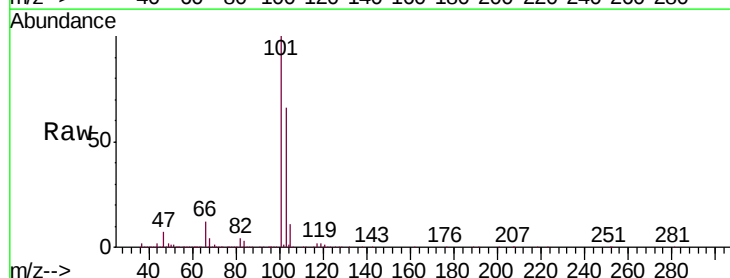
Acq: 10 Dec 2019 21:28

Tgt Ion: 101 Resp: 423778

Ion Ratio Lower Upper

101 100

103 65.6 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV013977.D (-197) (-)

Ion 103.00 (102.70 to 103.70): VV013977.D (-197) (-)

1.76

300000

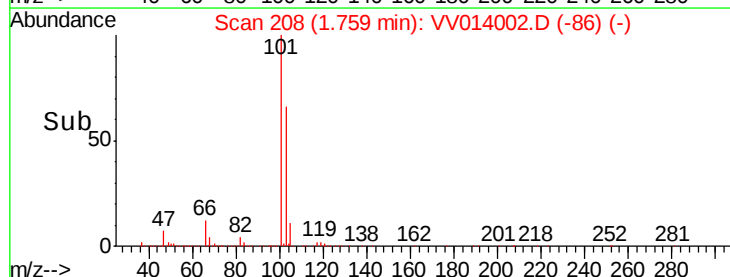
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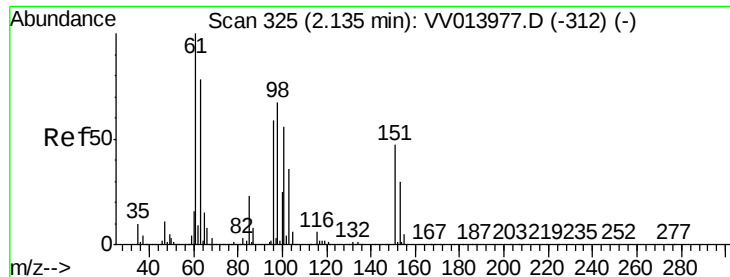
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0

1.70 1.75 1.80

Time-->





#10

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

Concen: 49.623 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

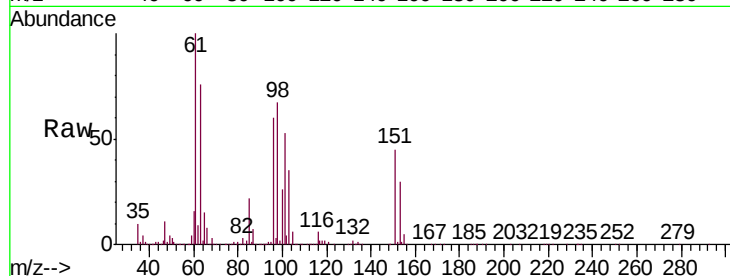
Tgt Ion: 101 Resp: 237427

Ion Ratio Lower Upper

101 100

85 41.3 32.5 48.7

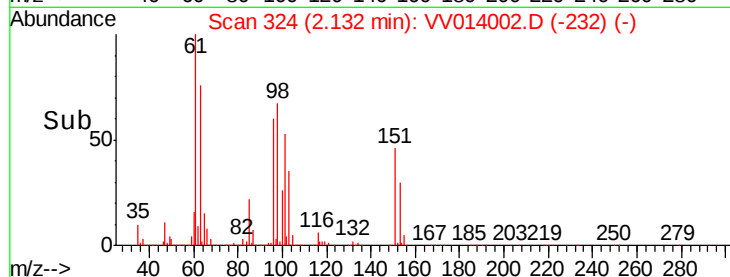
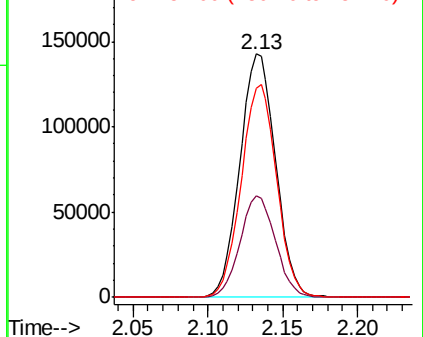
151 86.5 69.8 104.6



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: 50.471 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

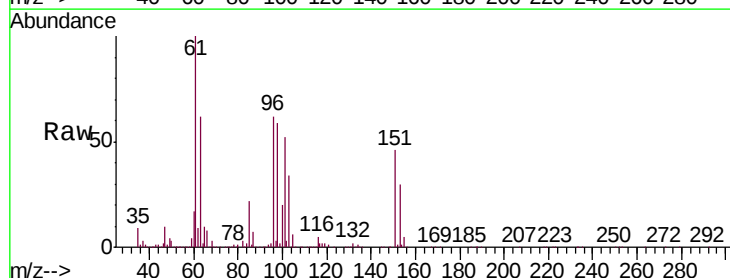
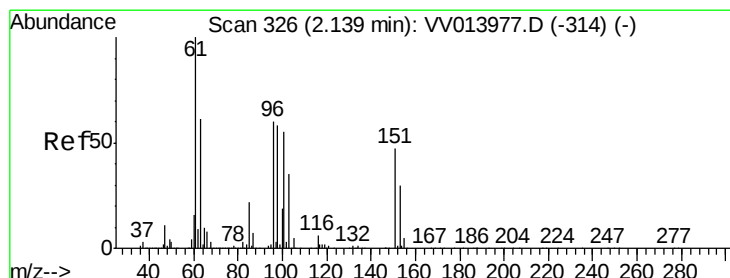
Tgt Ion: 96 Resp: 233262

Ion Ratio Lower Upper

96 100

61 161.7 114.0 211.8

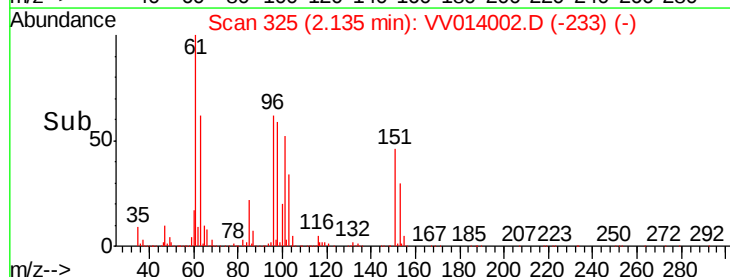
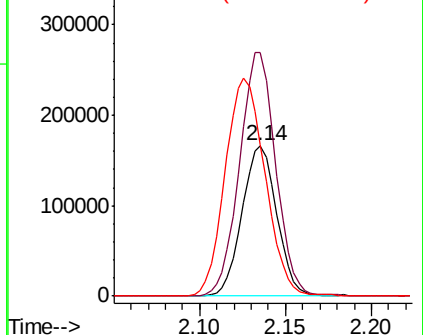
63 100.5 80.3 149.1

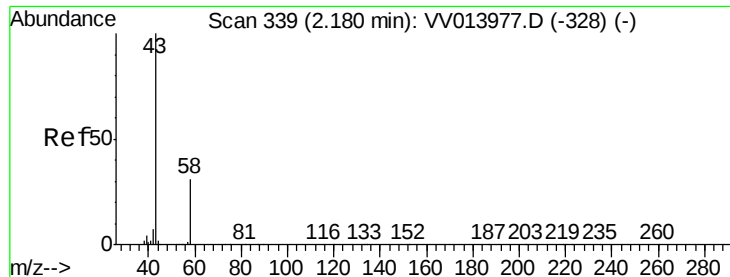


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 68.498 ug/L

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

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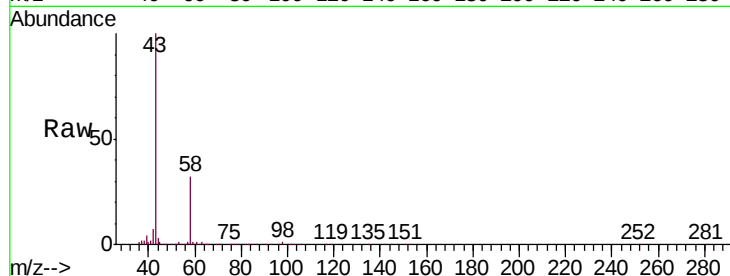
VSTD05076

Tgt Ion: 43 Resp: 259957

Ion Ratio Lower Upper

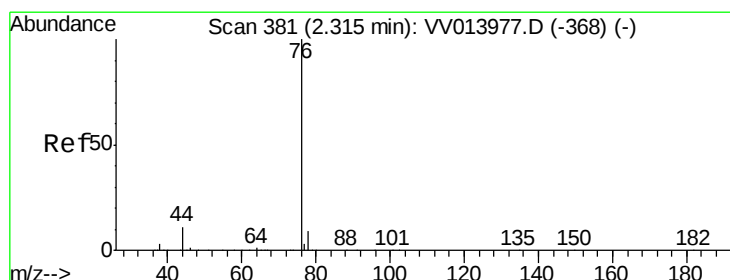
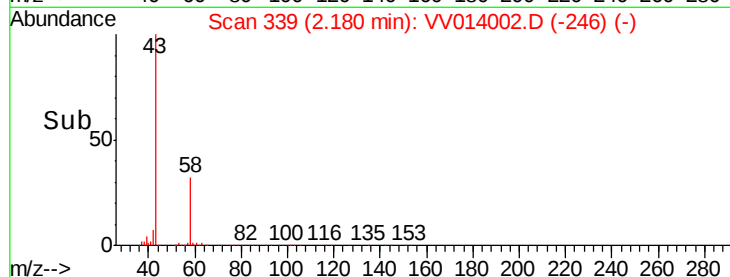
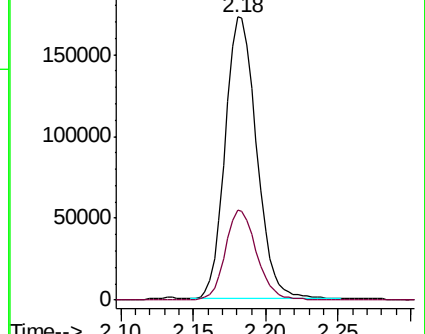
43 100

58 30.9 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV013977.D (-328) (-)

Ion 58.00 (57.70 to 58.70): VV013977.D (-328) (-)



#14

Carbon disulfide

Concen: 51.477 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV014002.D

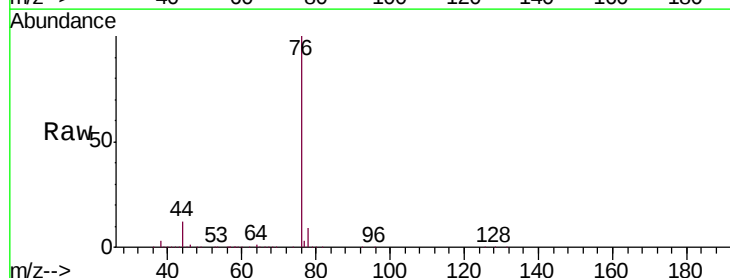
Acq: 10 Dec 2019 21:28

Tgt Ion: 76 Resp: 627399

Ion Ratio Lower Upper

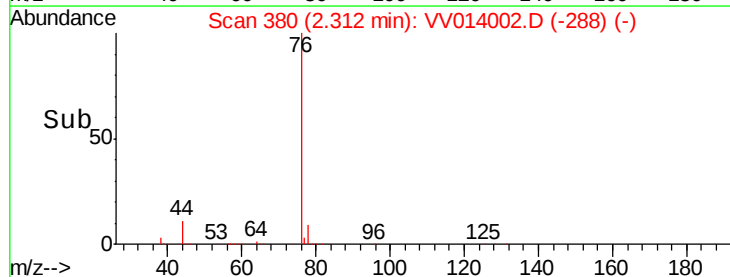
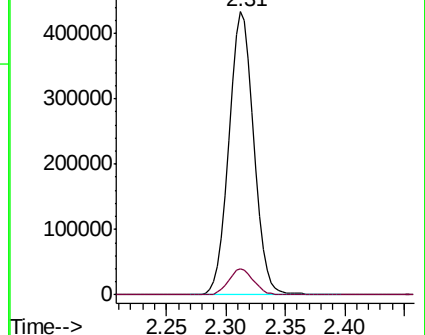
76 100

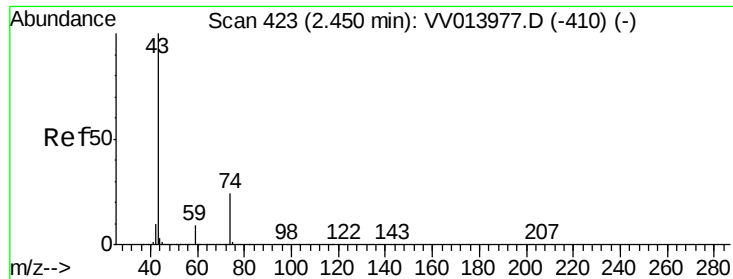
78 9.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV013977.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV013977.D (-368) (-)

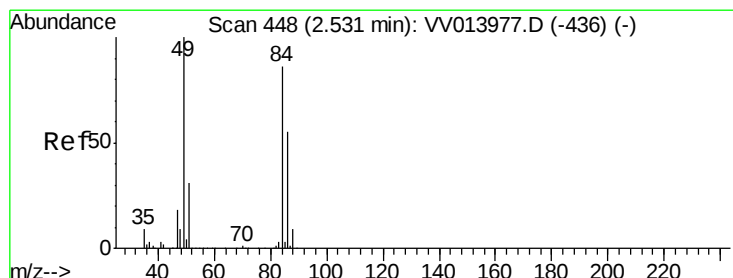
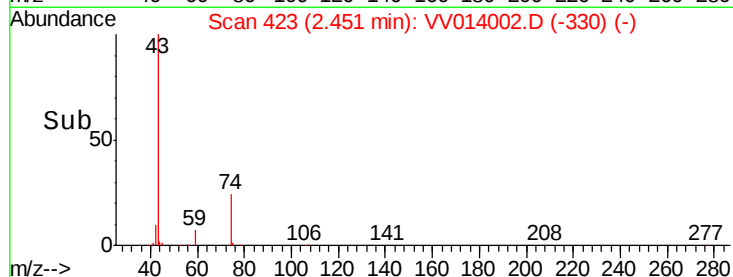
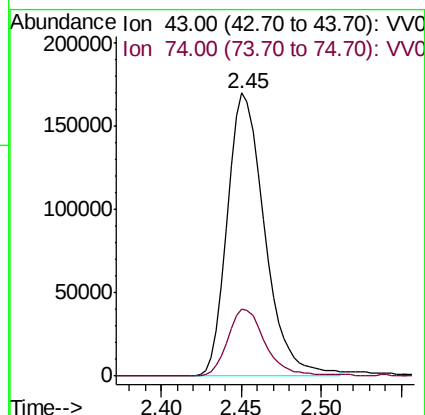
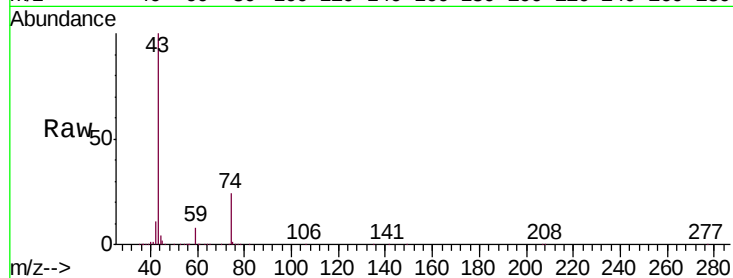




#15
Methyl Acetate
Concen: 57.690 ug/L
RT: 2.45 min Scan# 423
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

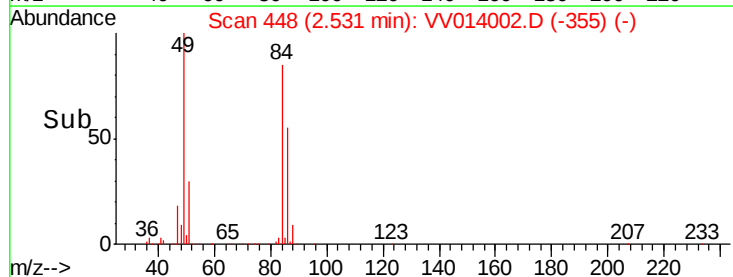
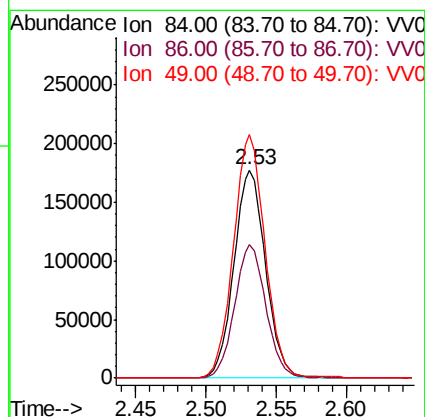
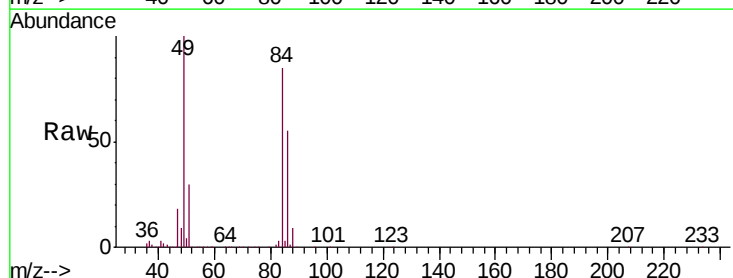
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

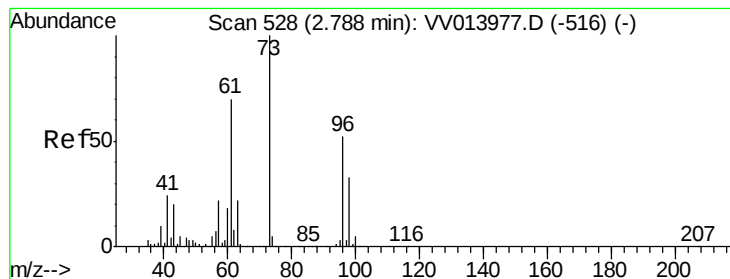
Tgt Ion: 43 Resp: 269825
Ion Ratio Lower Upper
43 100
74 23.8 19.3 28.9



#16
Methylene chloride
Concen: 58.076 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

Tgt Ion: 84 Resp: 279509
Ion Ratio Lower Upper
84 100
86 64.1 43.9 81.5
49 117.2 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 49.078 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

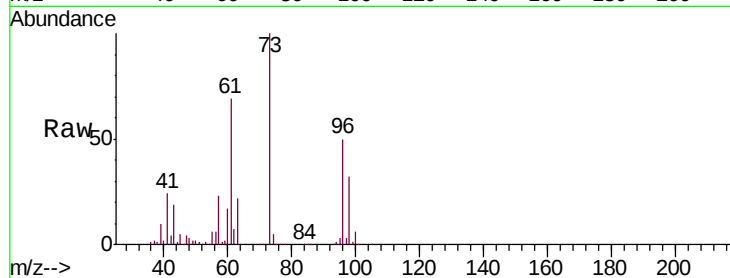
Tgt Ion: 96 Resp: 221863

Ion Ratio Lower Upper

96 100

61 136.6 92.2 171.2

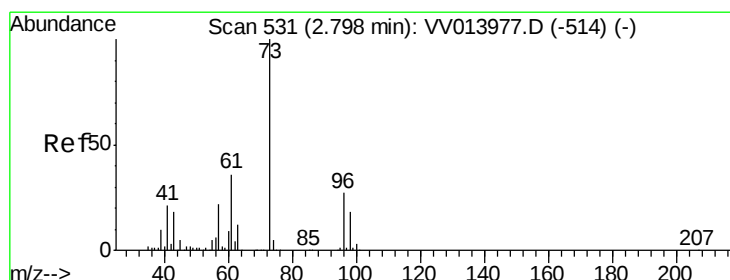
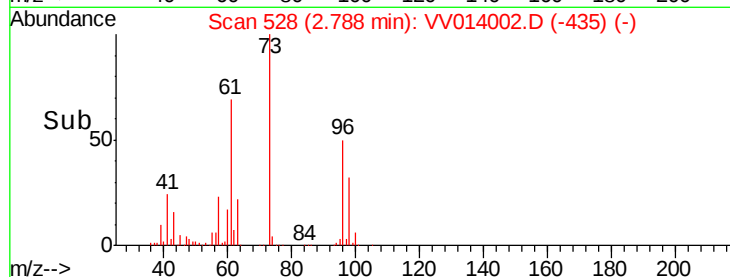
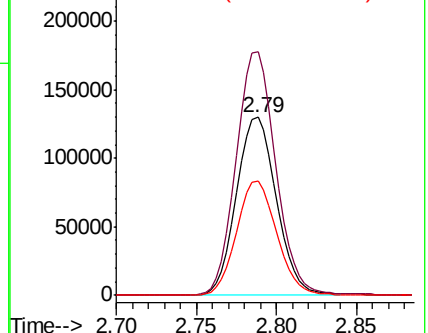
98 64.0 42.6 79.2



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: 52.334 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

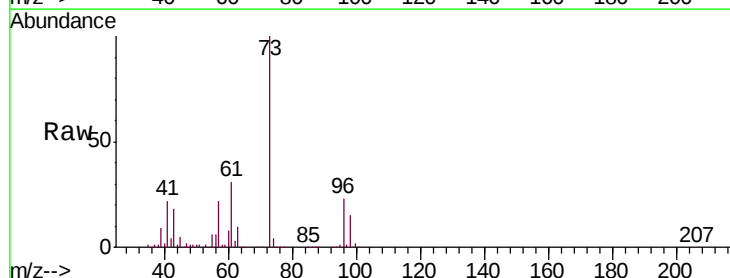
Tgt Ion: 73 Resp: 686557

Ion Ratio Lower Upper

73 100

43 18.3 15.0 22.6

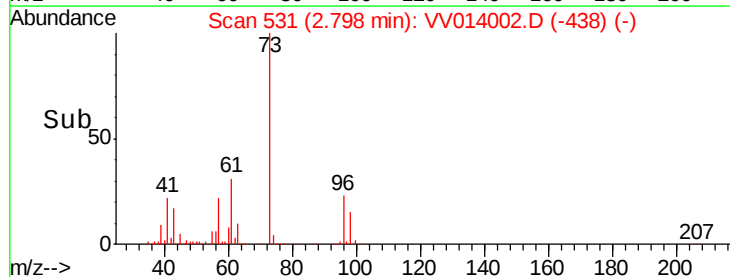
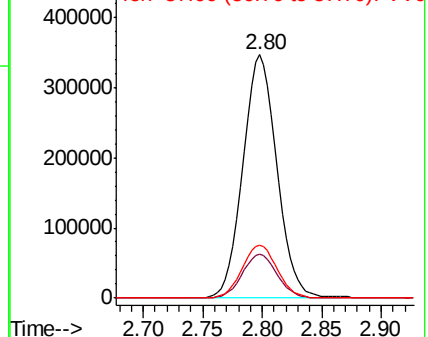
57 22.4 17.4 26.2

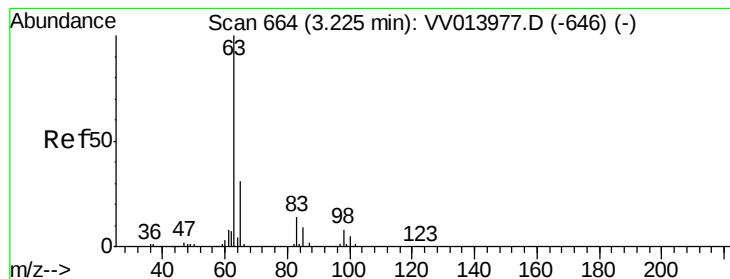


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 47.801 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

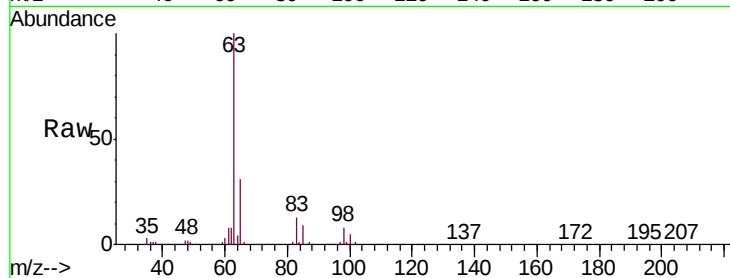
Tgt Ion: 63 Resp: 389312

Ion Ratio Lower Upper

63 100

65 31.5 21.5 39.9

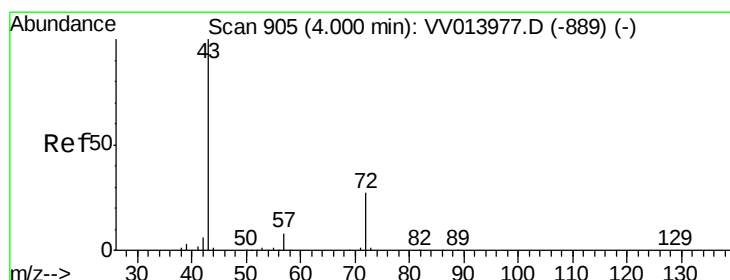
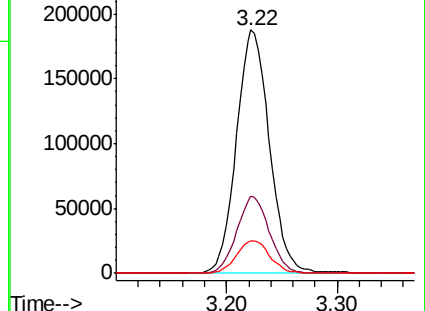
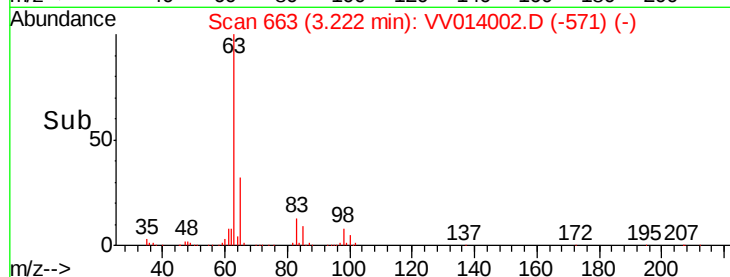
83 13.4 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV014002.D (-571) (-)

Ion 65.00 (64.70 to 65.70): VV014002.D (-571) (-)

Ion 83.00 (82.70 to 83.70): VV014002.D (-571) (-)



#22

2-Butanone

Concen: 85.428 ug/L

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VV014002.D

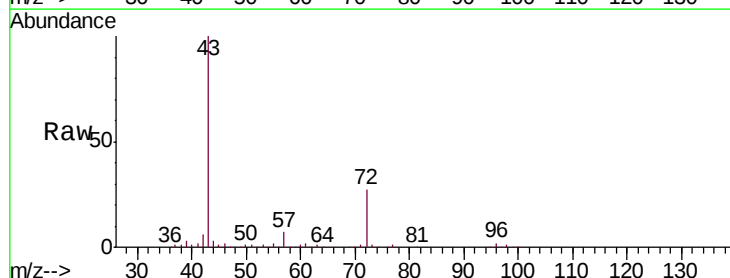
Acq: 10 Dec 2019 21:28

Tgt Ion: 43 Resp: 311185

Ion Ratio Lower Upper

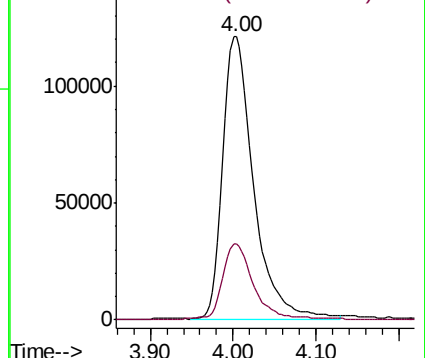
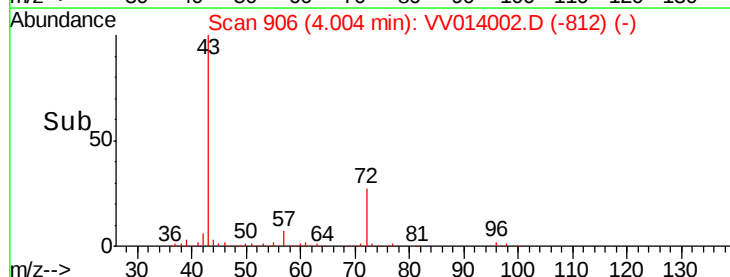
43 100

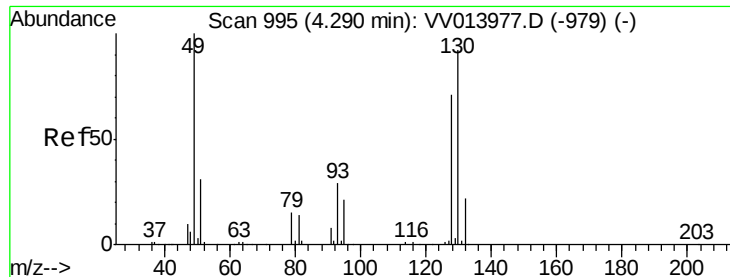
72 25.7 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV014002.D (-812) (-)

Ion 72.00 (71.70 to 72.70): VV014002.D (-812) (-)





#23

Bromochloromethane

Concen: 48.360 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

Tgt Ion:128 Resp: 130800

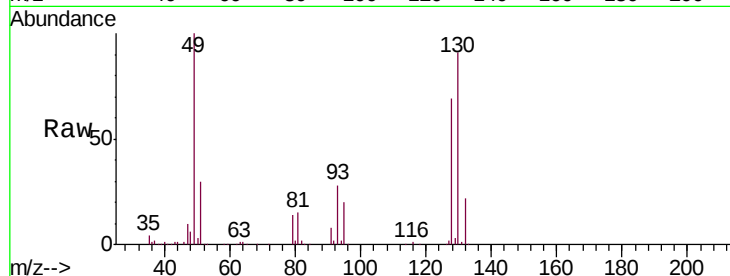
Ion Ratio Lower Upper

128 100

49 144.9 100.4 186.4

130 132.4 88.3 163.9

51 43.0 35.8 53.8

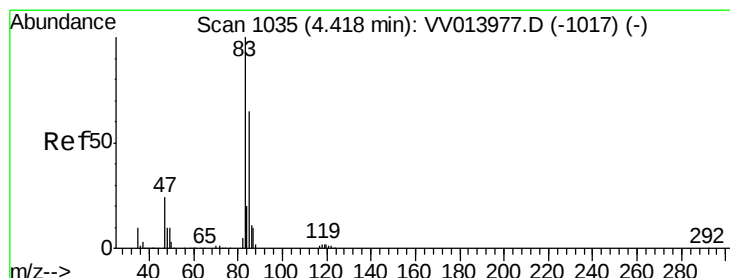
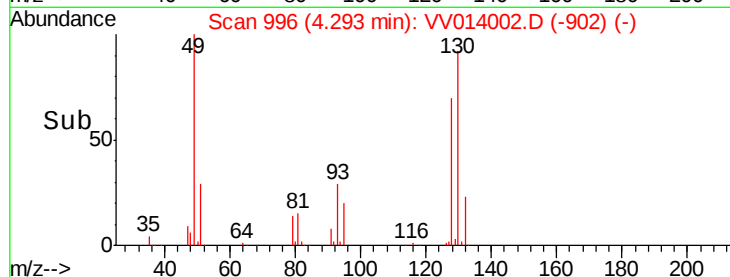
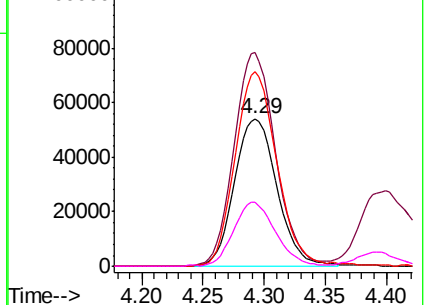


Abundance Ion 128.00 (127.70 to 128.70): V

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: 48.093 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV014002.D

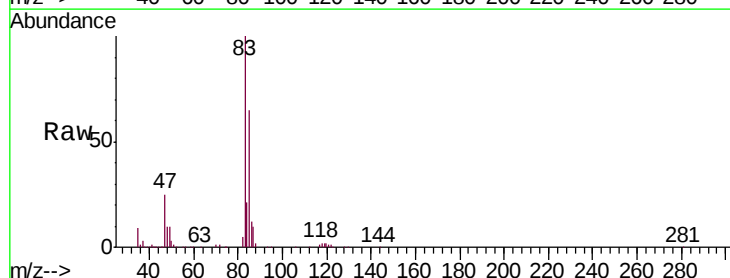
Acq: 10 Dec 2019 21:28

Tgt Ion: 83 Resp: 418749

Ion Ratio Lower Upper

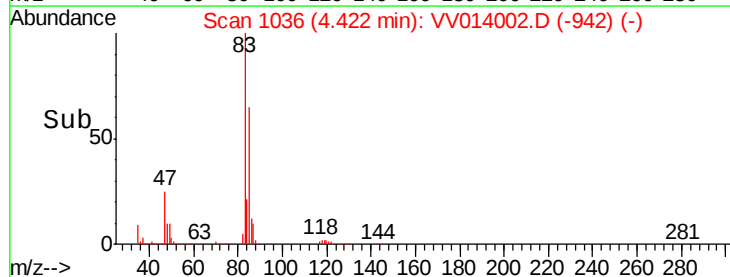
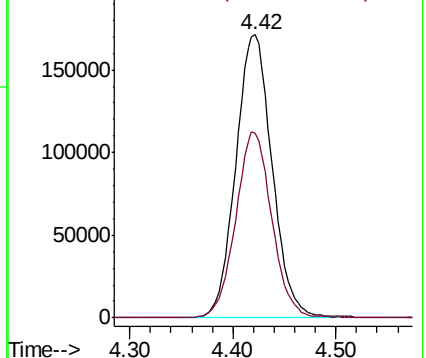
83 100

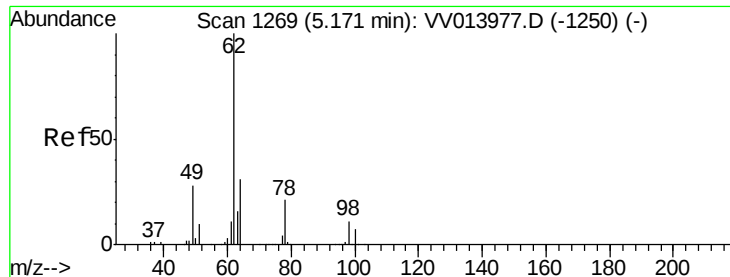
85 65.5 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 48.864 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

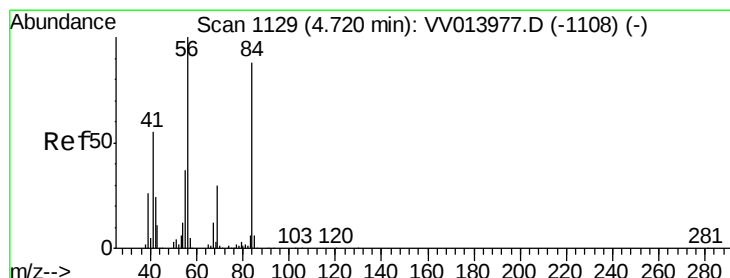
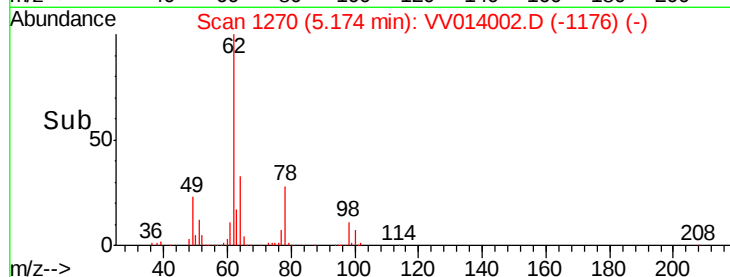
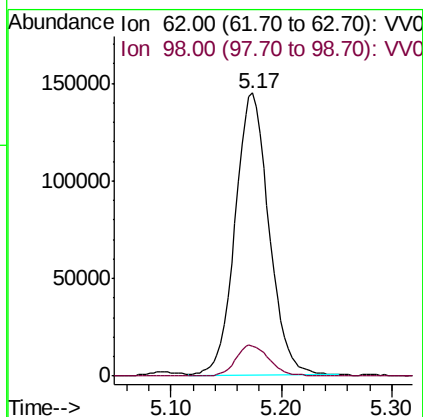
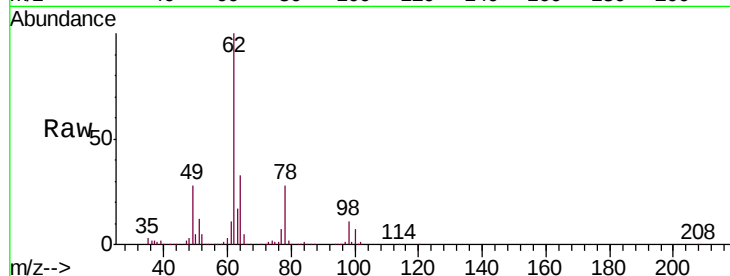
VSTD05076

Tgt Ion: 62 Resp: 306573

Ion Ratio Lower Upper

62 100

98 10.6 8.5 12.7



#29

Cyclohexane

Concen: 48.392 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

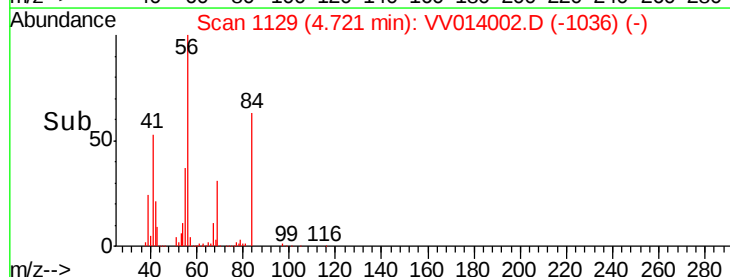
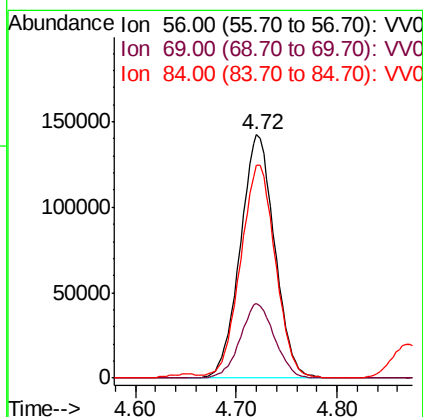
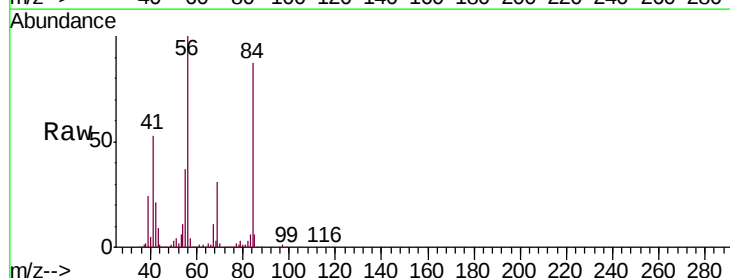
Tgt Ion: 56 Resp: 336375

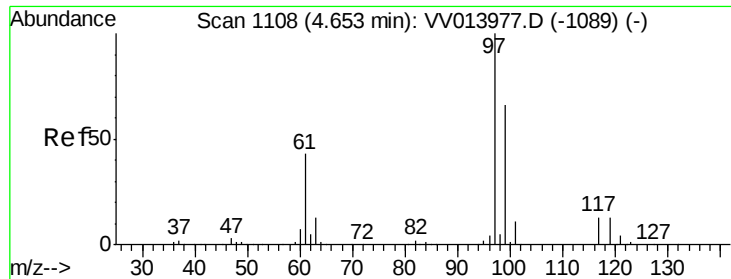
Ion Ratio Lower Upper

56 100

69 30.6 24.9 37.3

84 89.1 71.0 106.4

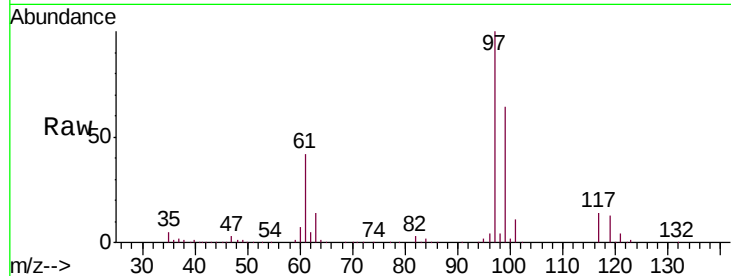




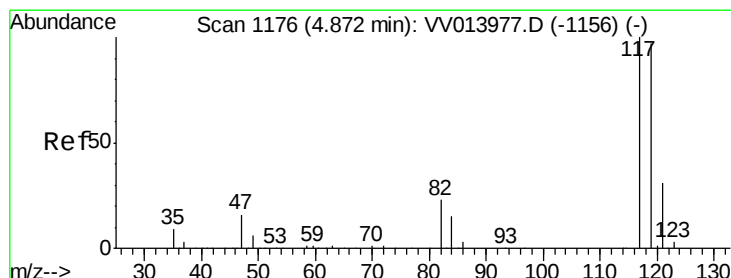
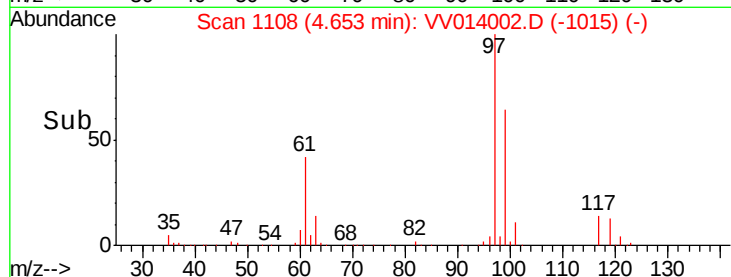
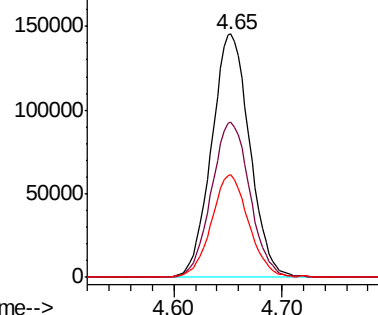
#30
 1,1,1-Trichloroethane
 Concen: 49.837 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

Tgt Ion: 97 Resp: 357951
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.4 77.2
 61 41.2 33.2 49.8

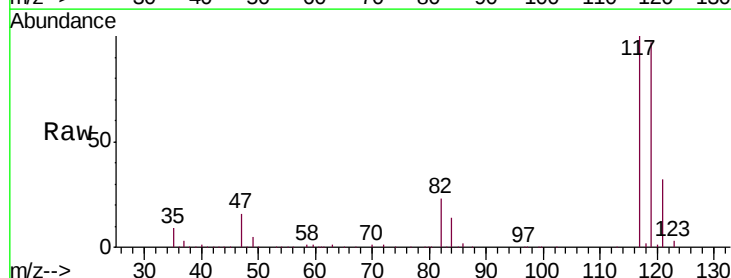


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0

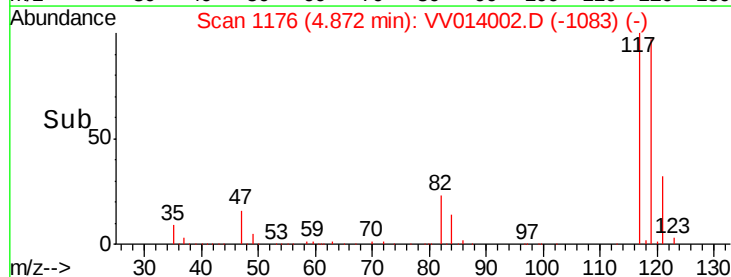
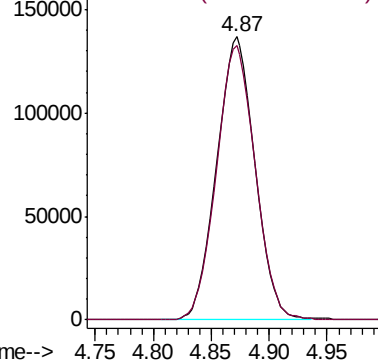


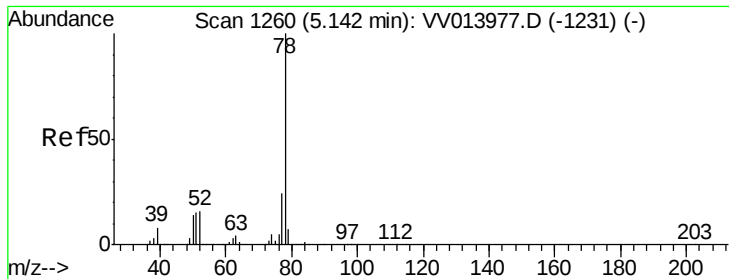
#31
 Carbon tetrachloride
 Concen: 49.023 ug/L
 RT: 4.87 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

Tgt Ion: 117 Resp: 314526
 Ion Ratio Lower Upper
 117 100
 119 98.4 77.9 116.9



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





#33

Benzene

Concen: 50.516 ug/L

RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

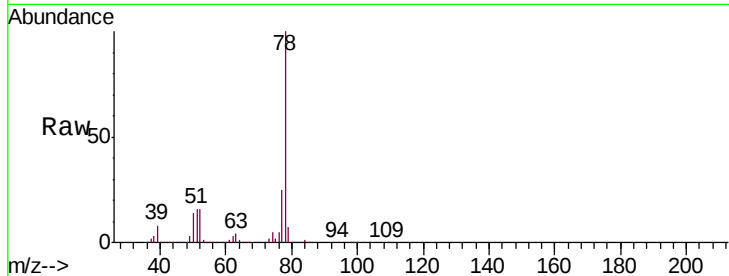
Instrument :

MSVOA_V

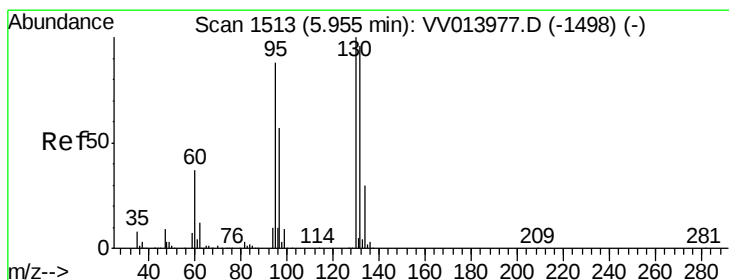
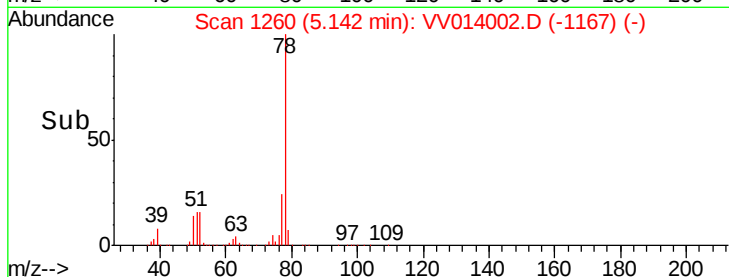
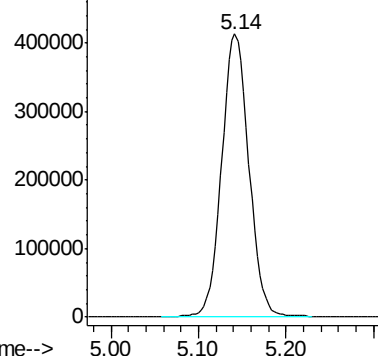
ClientSampleId :

VSTD05076

Tgt Ion: 78 Resp: 895026



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 51.047 ug/L

RT: 5.96 min Scan# 1513

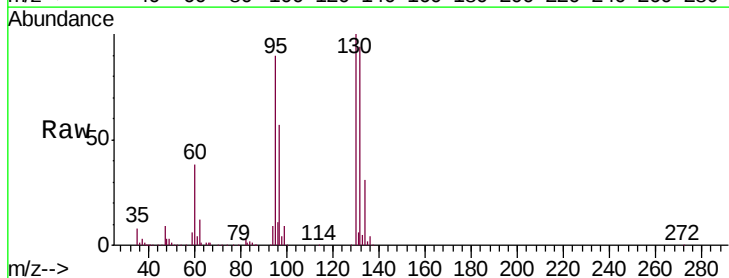
Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Tgt Ion: 95 Resp: 242578

Ion	Ratio	Lower	Upper
95	100		
97	63.8	45.4	84.4
132	105.1	73.7	136.9
130	111.4	77.1	143.1

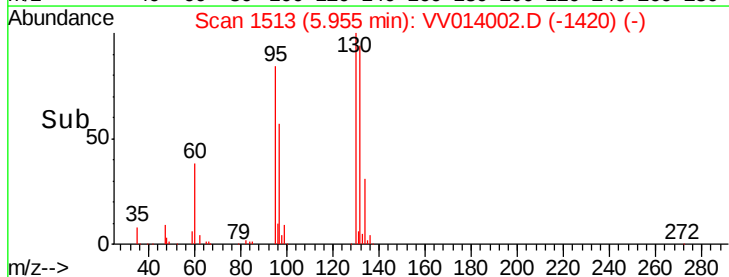
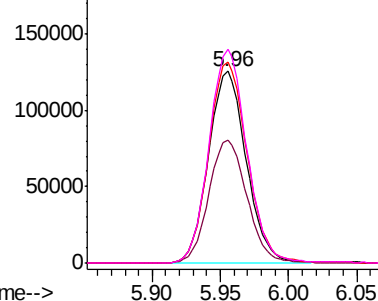


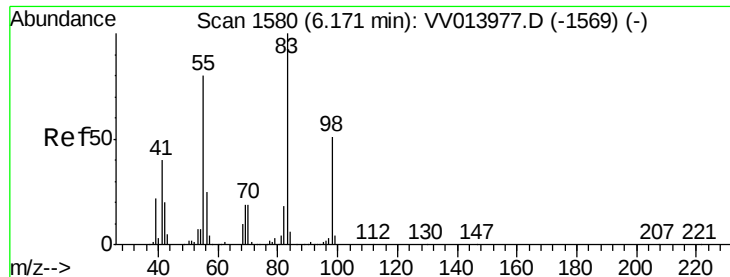
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

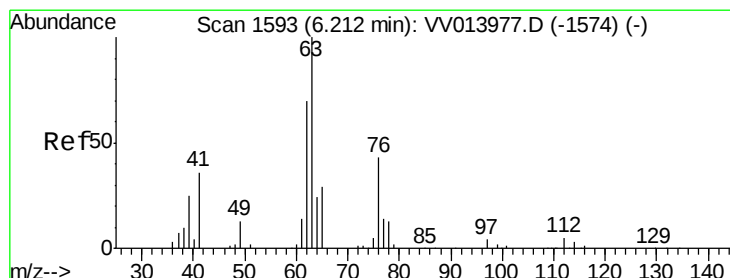
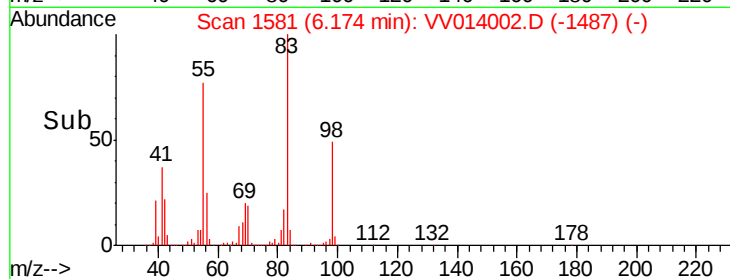
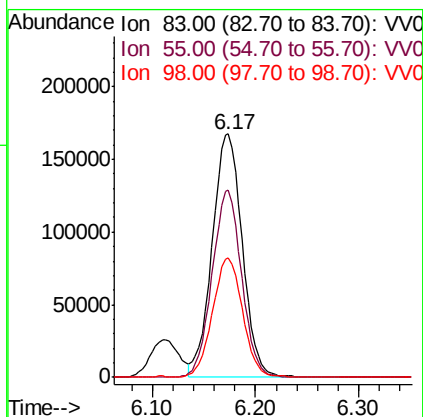
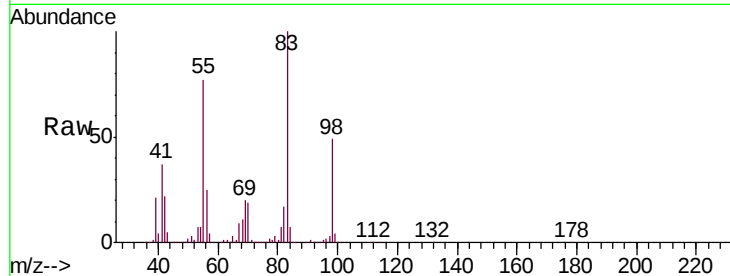




#35
Methylcyclohexane
Concen: 47.706 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

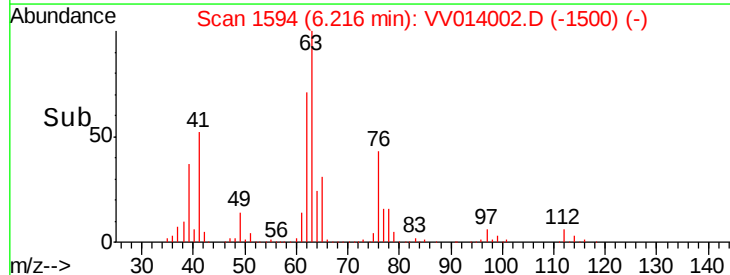
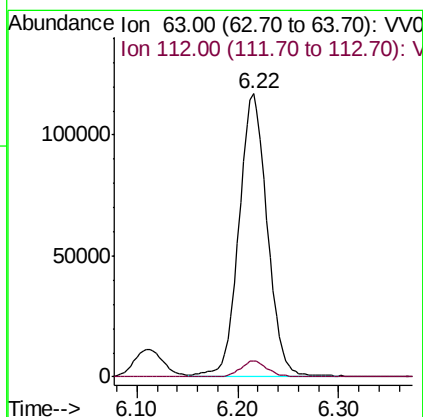
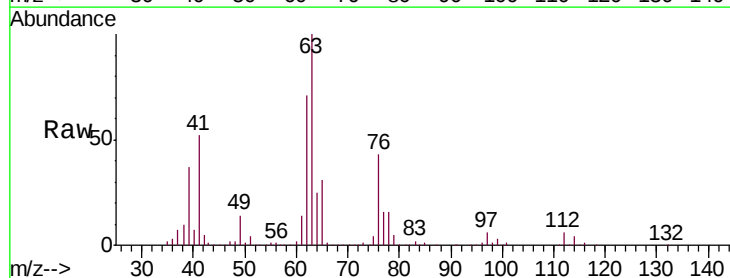
Instrument :
MSVOA_V
ClientSampled :
VSTD05076

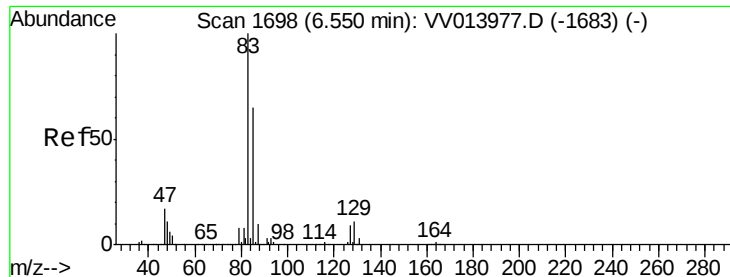
Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.8	61.0	91.4
98	48.6	39.6	59.4



#37
1,2-Dichloropropane
Concen: 52.937 ug/L
RT: 6.22 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

Tgt Ion	Ratio	Lower	Upper
63	100		
112	5.4	4.2	6.2





#38

Bromodichloromethane

Concen: 51.204 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

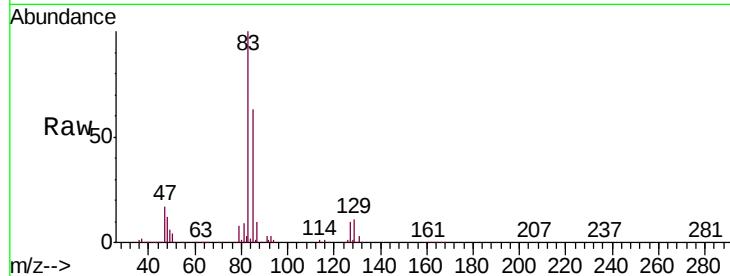
Tgt Ion: 83 Resp: 311392

Ion Ratio Lower Upper

83 100

85 63.4 44.8 83.2

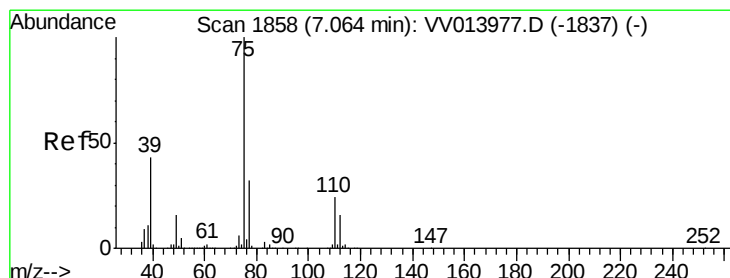
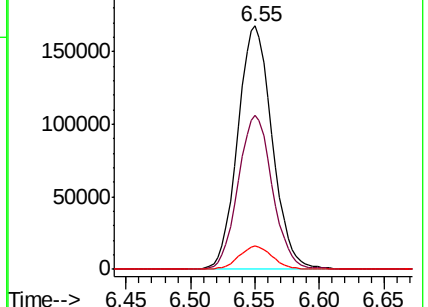
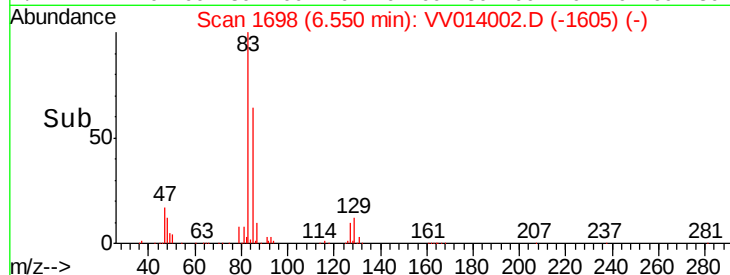
127 9.6 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VV014002.D (-1605) (-)

Ion 85.00 (84.70 to 85.70): VV014002.D (-1605) (-)

Ion 127.00 (126.70 to 127.70): VV014002.D (-1605) (-)



#39

cis-1,3-Dichloropropene

Concen: 49.176 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VV014002.D

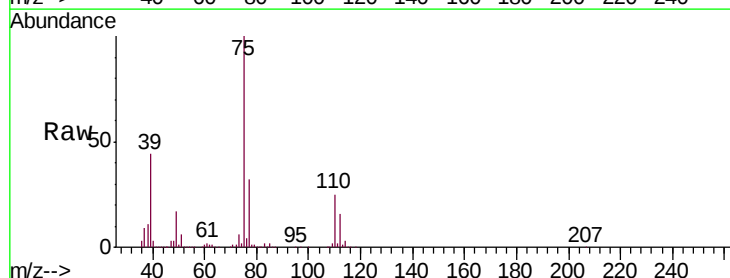
Acq: 10 Dec 2019 21:28

Tgt Ion: 75 Resp: 331972

Ion Ratio Lower Upper

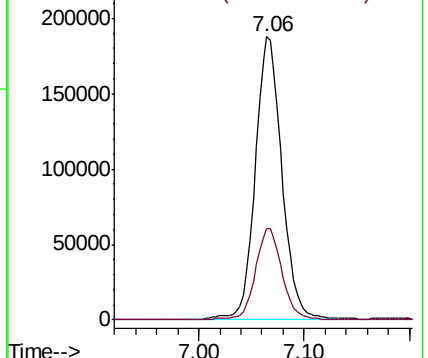
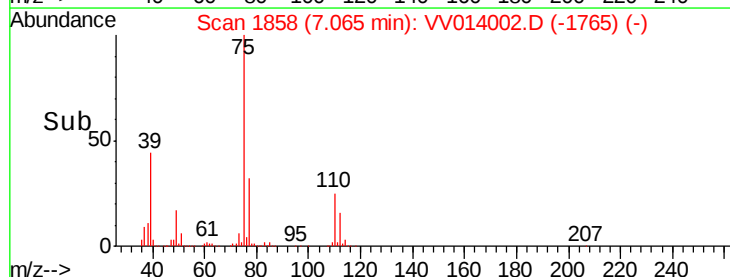
75 100

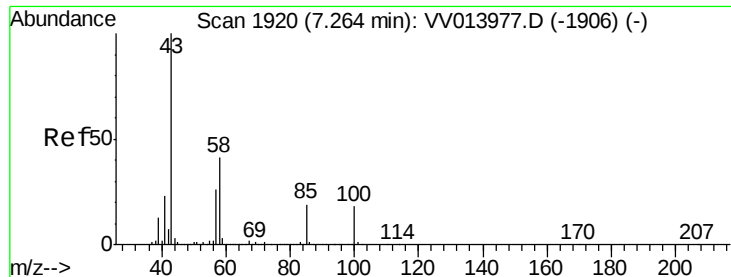
77 32.2 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV014002.D (-1765) (-)

Ion 77.00 (76.70 to 77.70): VV014002.D (-1765) (-)

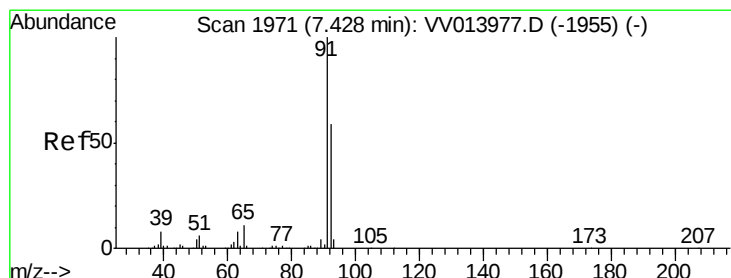
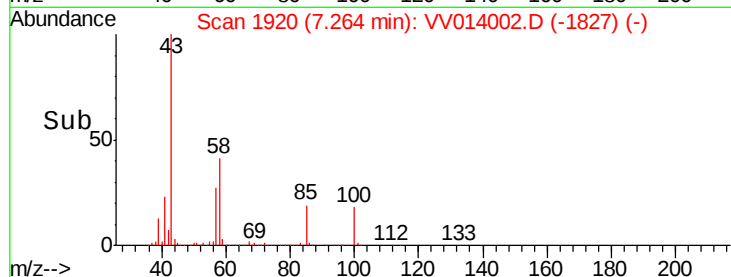
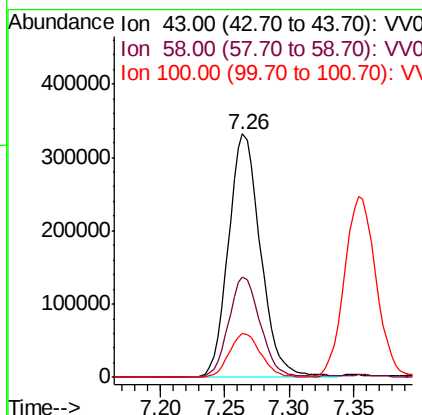
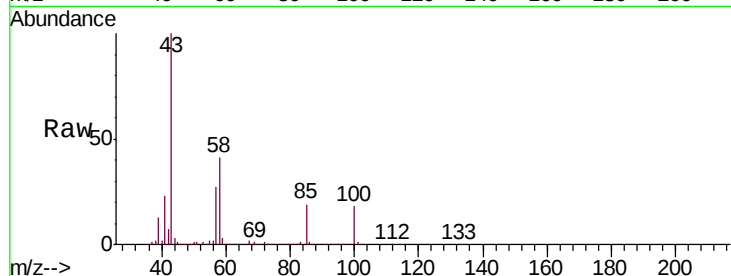




#40
4-Methyl-2-pentanone
Concen: 103.250 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

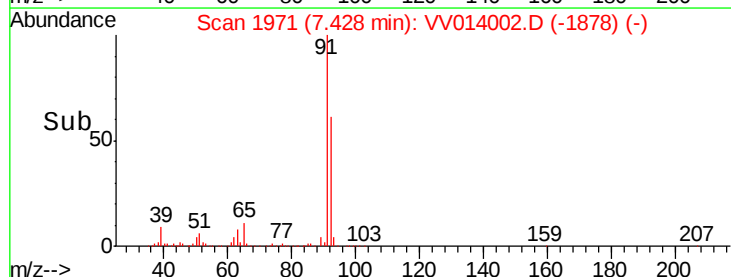
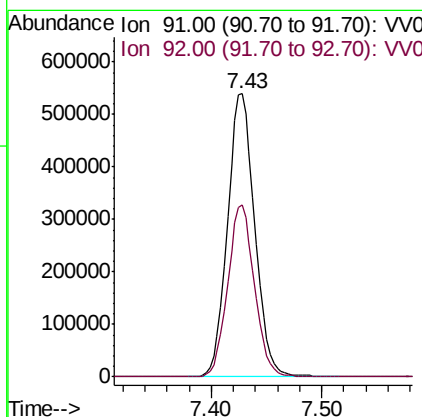
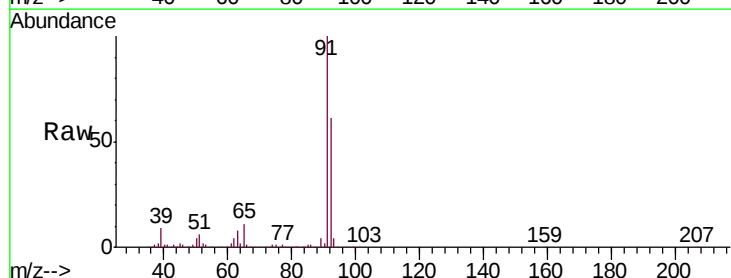
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

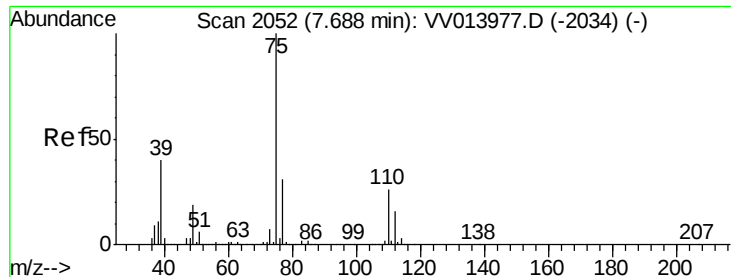
Tgt Ion: 43 Resp: 575739
Ion Ratio Lower Upper
43 100
58 40.7 31.9 47.9
100 17.8 13.7 20.5



#42
Toluene
Concen: 50.423 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

Tgt Ion: 91 Resp: 921780
Ion Ratio Lower Upper
91 100
92 60.8 41.4 77.0





#44

trans-1,3-Dichloropropene

Concen: 47.350 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

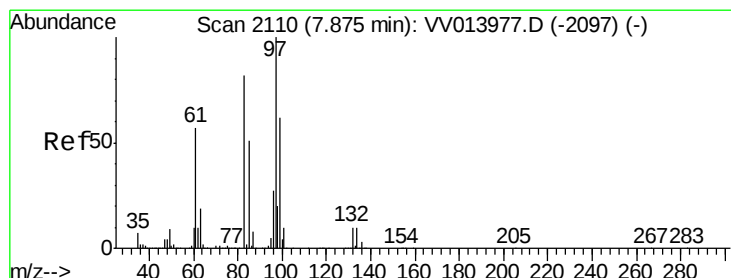
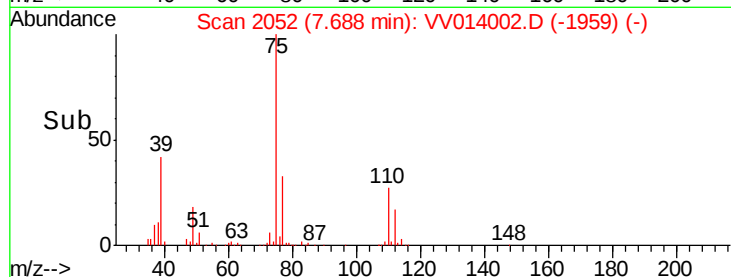
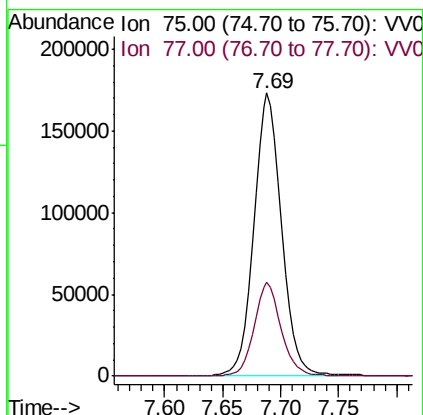
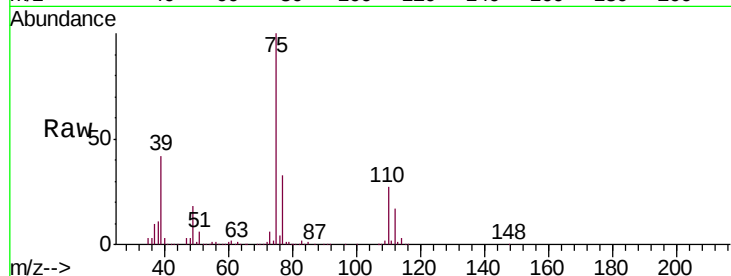
VSTD05076

Tgt Ion: 75 Resp: 289454

Ion Ratio Lower Upper

75 100

77 33.0 22.9 42.5



#45

1,1,2-Trichloroethane

Concen: 52.702 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Tgt Ion: 97 Resp: 224327

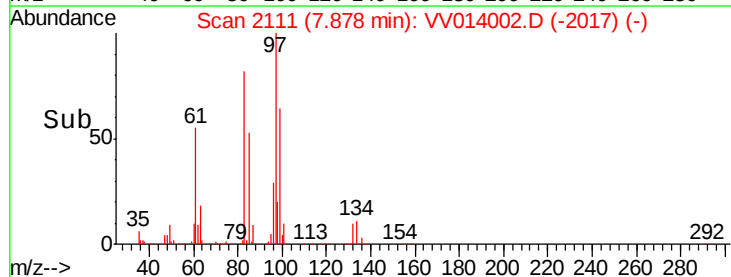
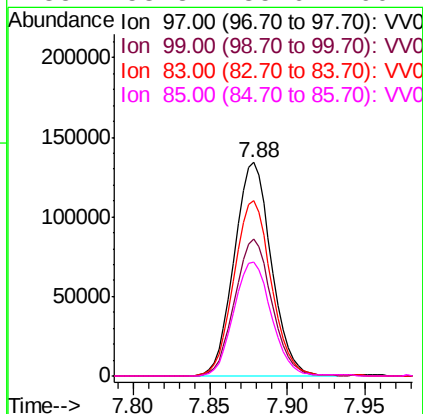
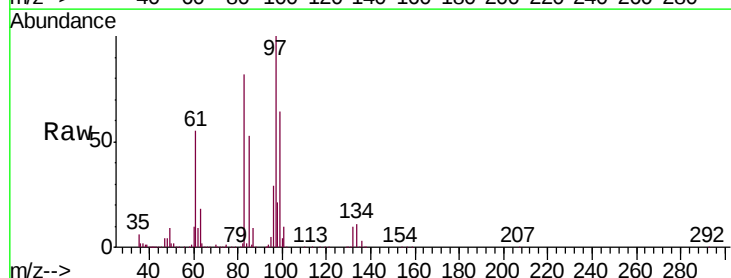
Ion Ratio Lower Upper

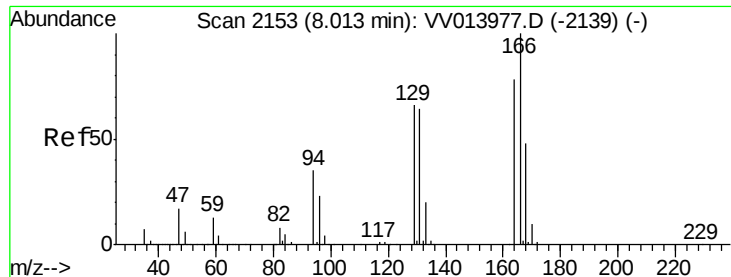
97 100

99 64.0 43.0 80.0

83 82.0 57.5 106.9

85 53.3 35.6 66.2

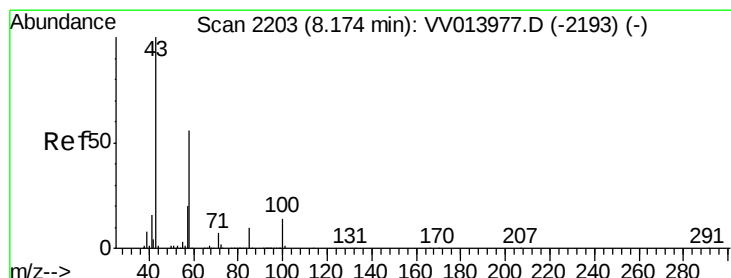
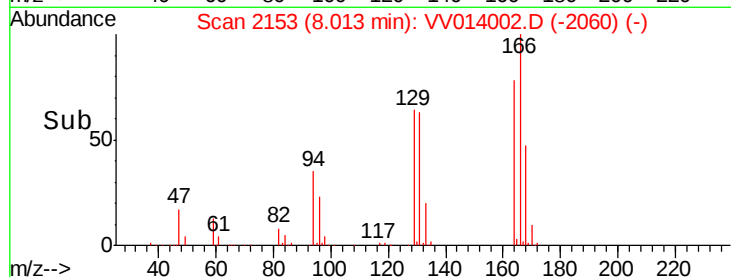
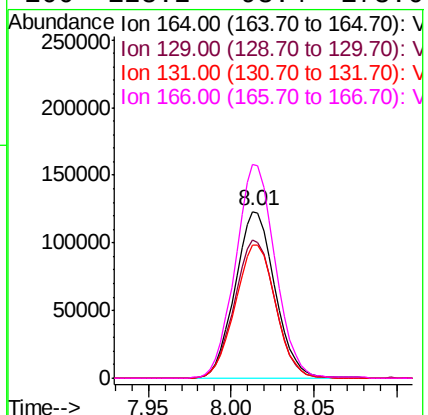
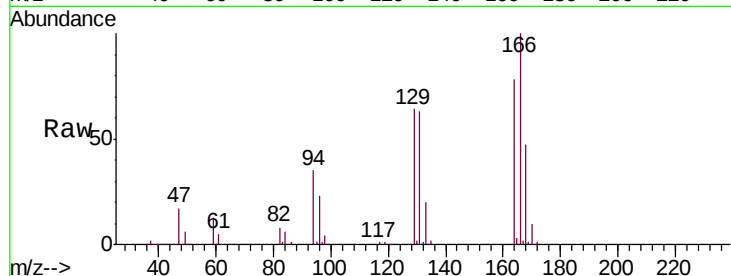




#46
Tetrachloroethene
Concen: 47.959 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

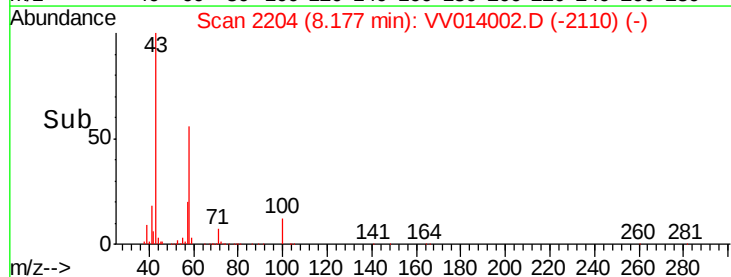
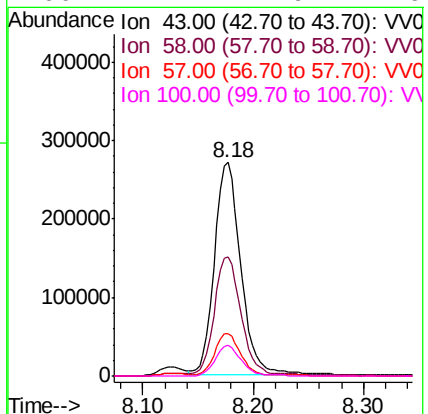
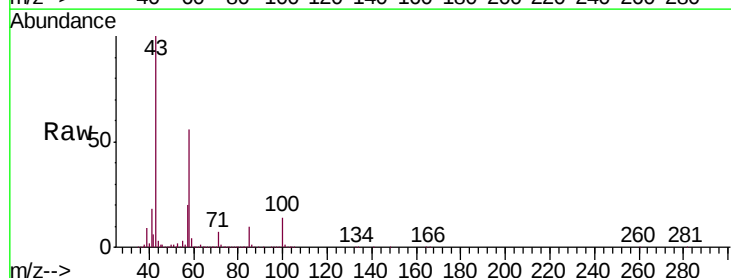
Instrument :
MSVOA_V
ClientSampleId :
VSTD05076

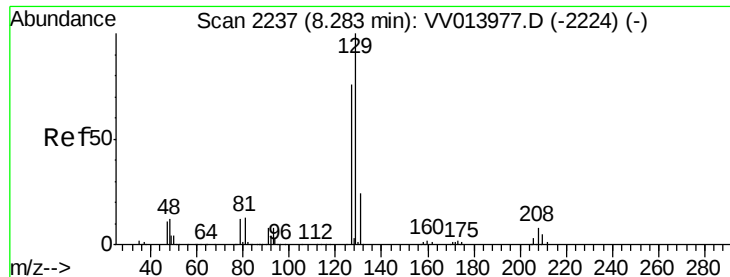
Tgt Ion	Ratio	Lower	Upper
164	100		
129	82.6	61.7	114.7
131	80.2	58.4	108.6
166	128.2	93.4	173.6



#48
2-Hexanone
Concen: 100.373 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VV014002.D
Acq: 10 Dec 2019 21:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.5	48.4	72.6
57	19.2	16.6	24.8
100	14.4	11.9	17.9





#49

Dibromochloromethane

Concen: 49.925 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

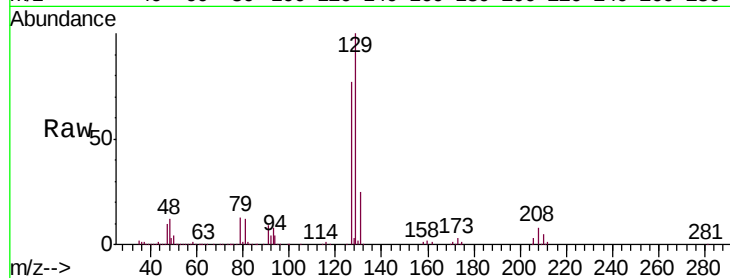
VSTD05076

Tgt Ion:129 Resp: 259765

Ion Ratio Lower Upper

129 100

127 76.6 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.29

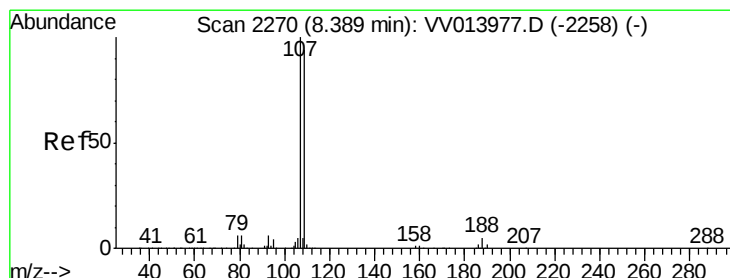
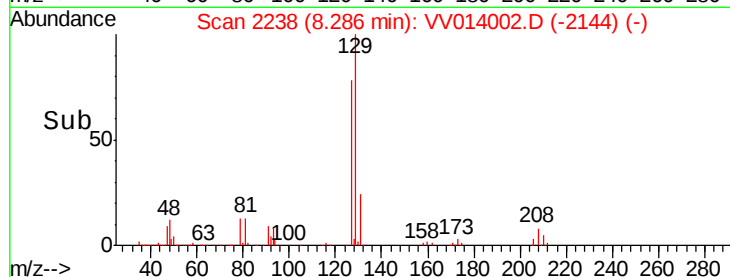
150000

100000

50000

0

Time--> 8.20 8.25 8.30 8.35



#50

1,2-Dibromoethane

Concen: 51.100 ug/L

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

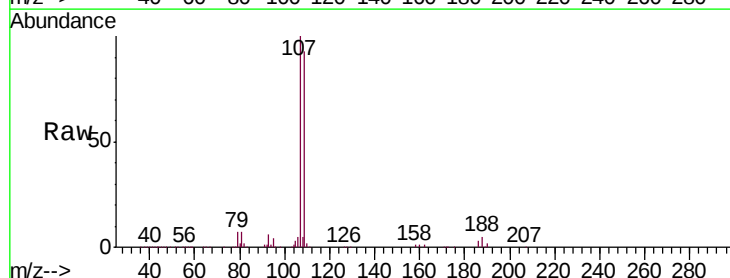
Tgt Ion:107 Resp: 239607

Ion Ratio Lower Upper

107 100

109 92.9 65.9 122.5

188 4.6 3.6 5.4



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

8.39

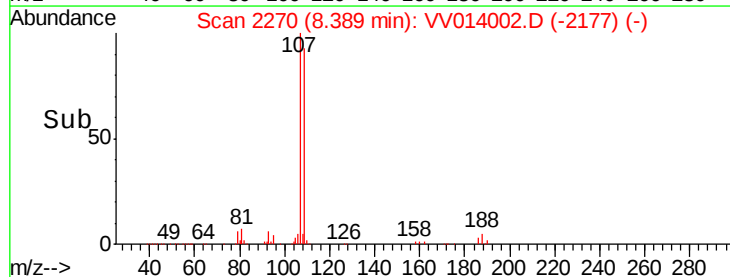
150000

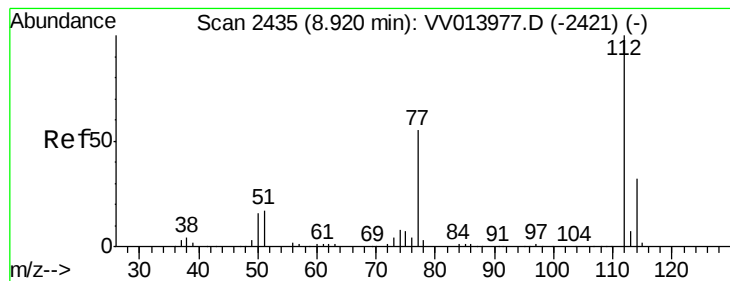
100000

50000

0

Time--> 8.30 8.35 8.40 8.45





#51

Chlorobenzene

Concen: 49.607 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

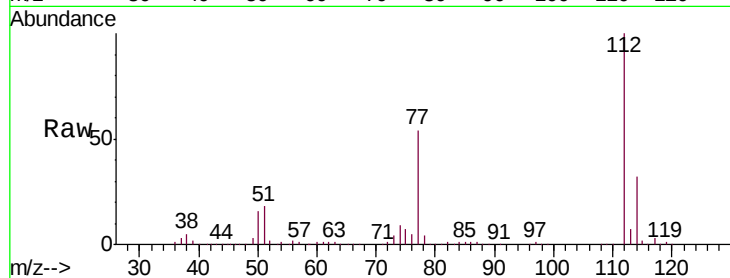
Tgt Ion: 112 Resp: 625650

Ion Ratio Lower Upper

112 100

114 31.8 23.2 43.2

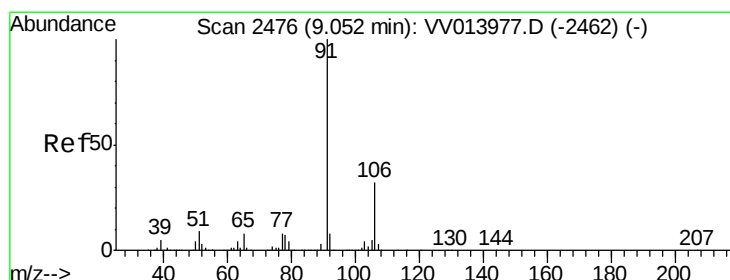
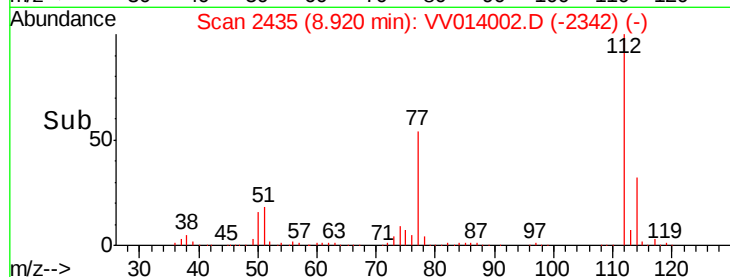
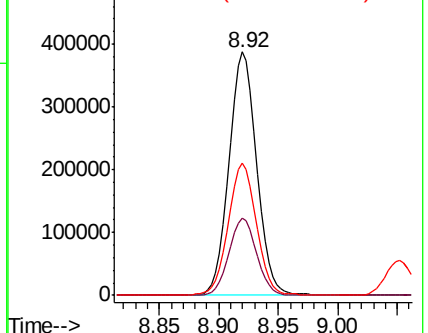
77 54.3 45.0 67.4



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: 50.054 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014002.D

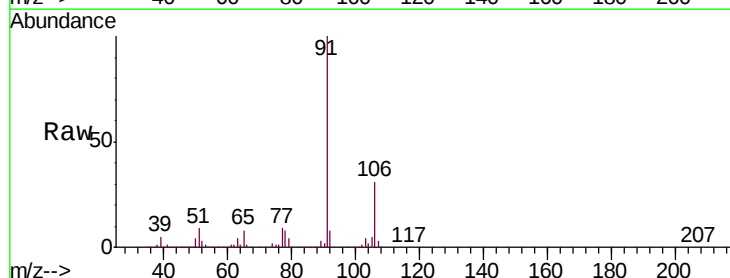
Acq: 10 Dec 2019 21:28

Tgt Ion: 91 Resp: 1008718

Ion Ratio Lower Upper

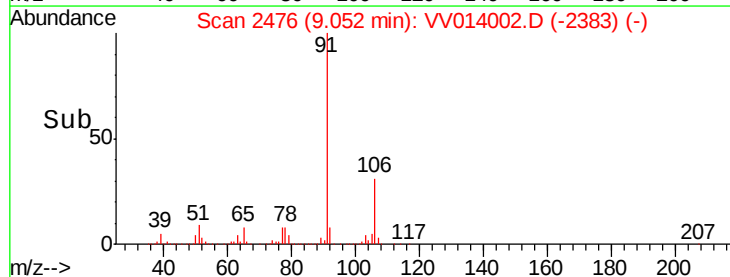
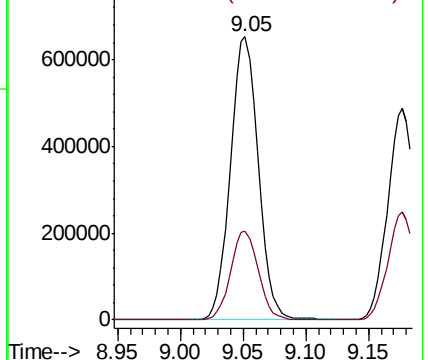
91 100

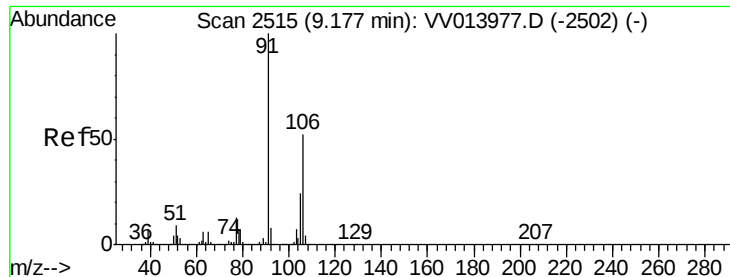
106 31.3 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 50.461 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

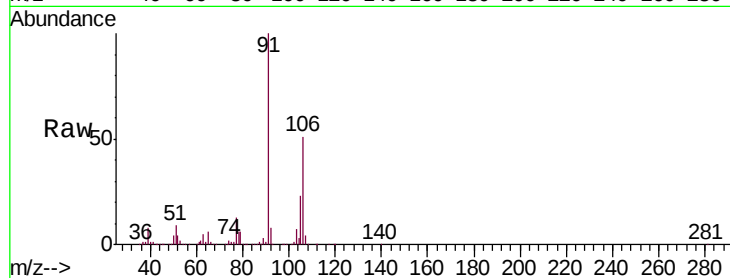
VSTD05076

Tgt Ion:106 Resp: 393253

Ion Ratio Lower Upper

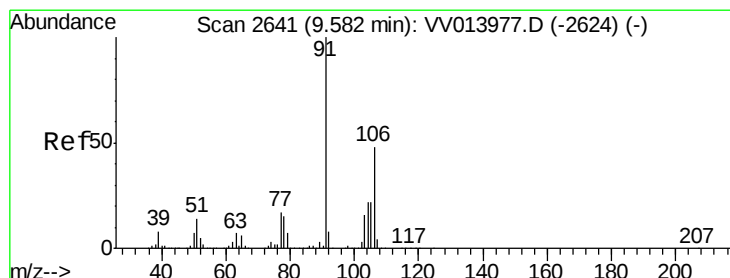
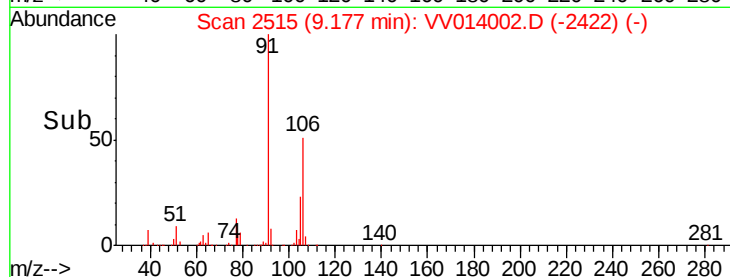
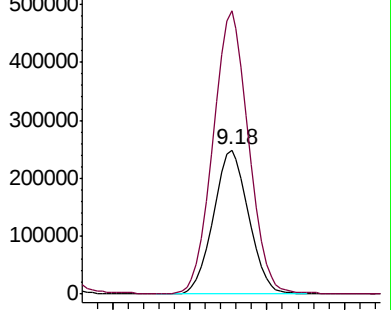
106 100

91 196.5 139.4 259.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 51.031 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014002.D

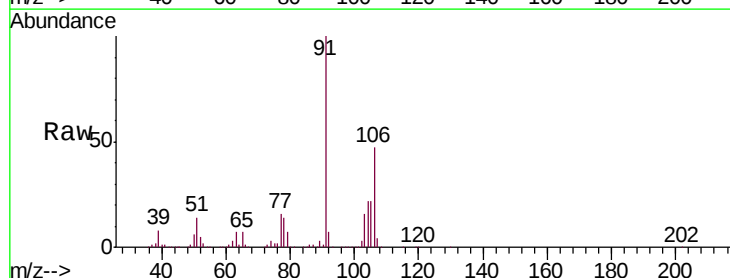
Acq: 10 Dec 2019 21:28

Tgt Ion:106 Resp: 388843

Ion Ratio Lower Upper

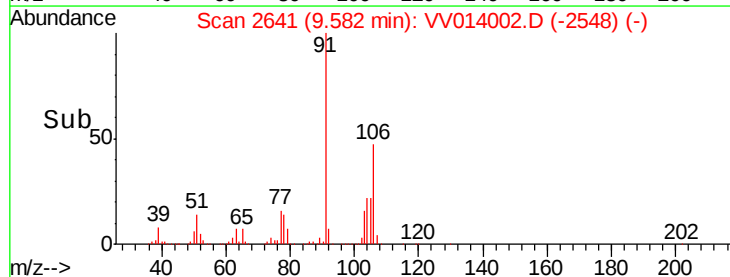
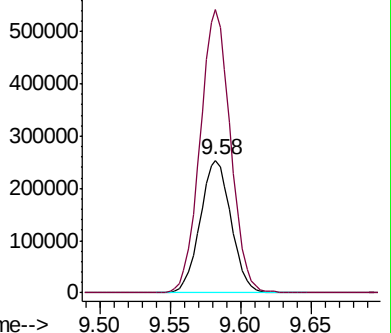
106 100

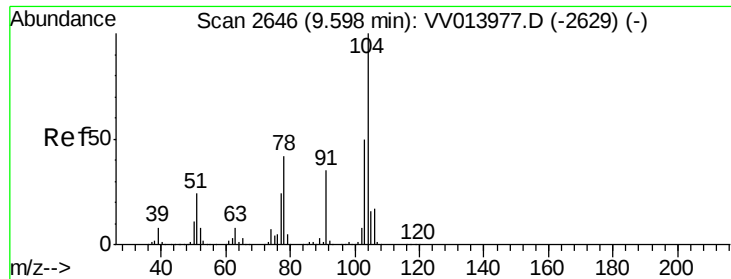
91 212.9 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Styrene

Concen: 50.154 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

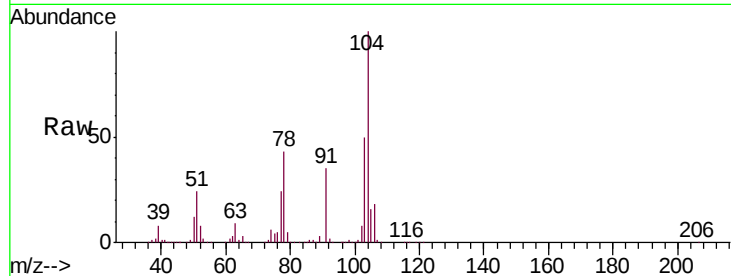
VSTD05076

Tgt Ion:104 Resp: 659347

Ion Ratio Lower Upper

104 100

78 43.1 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

9.60

400000

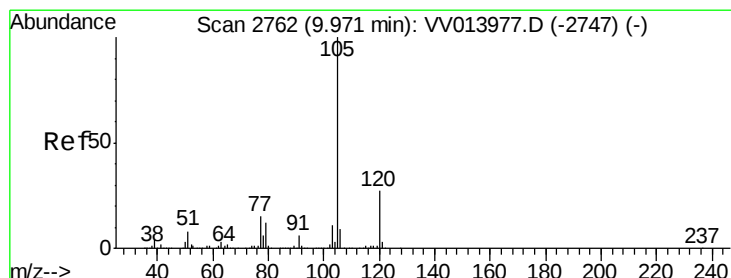
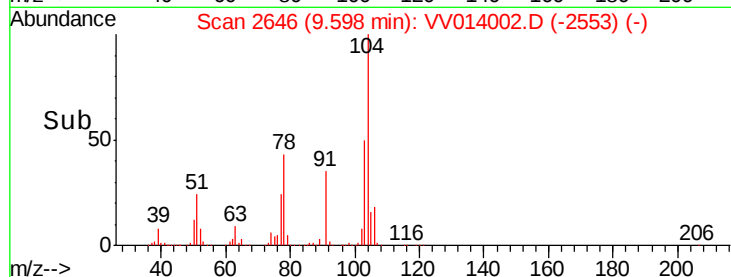
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65 9.70



#56

Isopropylbenzene

Concen: 49.650 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

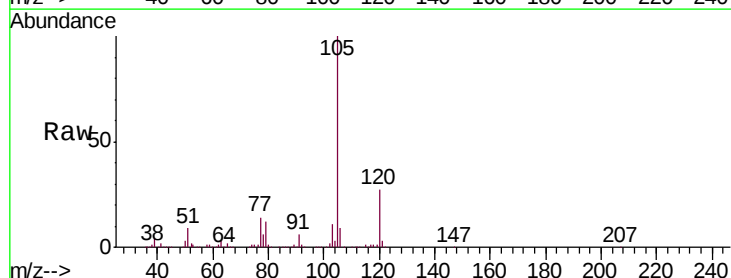
Tgt Ion:105 Resp: 1016910

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

77 14.4 12.0 18.0



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): VV0

9.97

800000

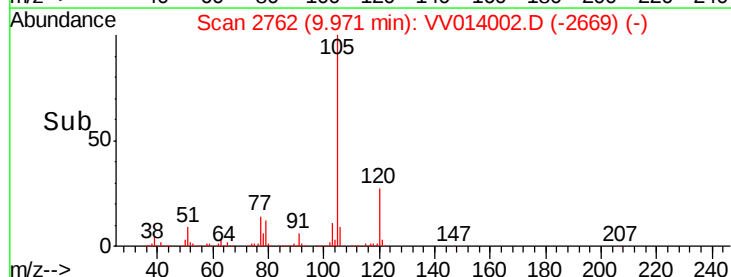
600000

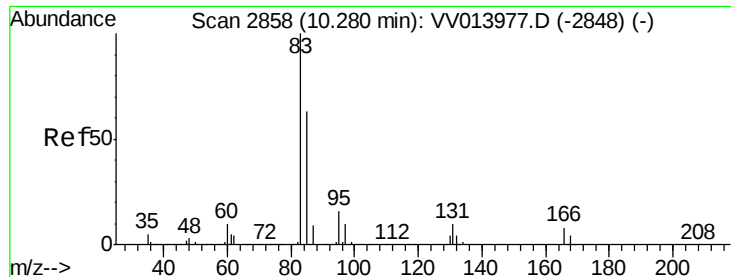
400000

200000

0

Time--> 9.90 9.95 10.00 10.05





#58

1,1,2,2-Tetrachloroethane

Concen: 46.990 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampled :

VSTD05076

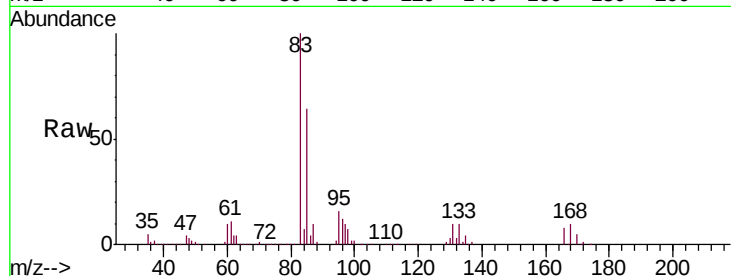
Tgt Ion: 83 Resp: 325612

Ion Ratio Lower Upper

83 100

85 63.7 44.1 81.9

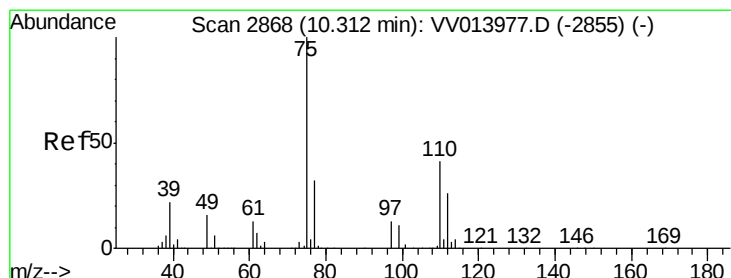
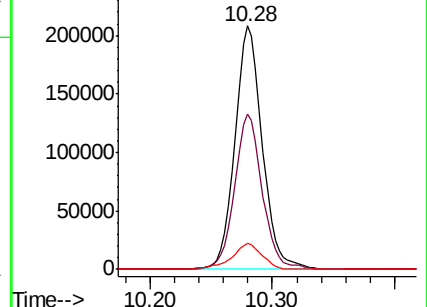
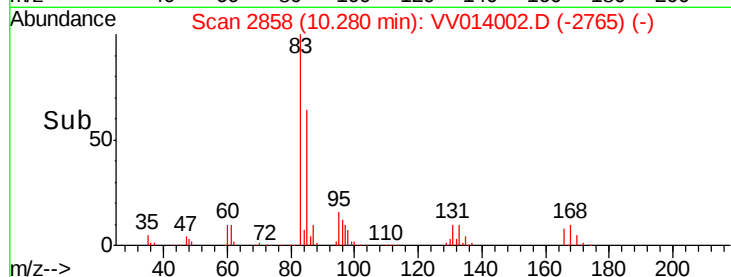
131 10.4 8.8 13.2



Abundance Ion 83.00 (82.70 to 83.70): VV014002.D (-2765) (-)

Ion 85.00 (84.70 to 85.70): VV014002.D (-2765) (-)

Ion 131.00 (130.70 to 131.70): VV014002.D (-2765) (-)



#59

1,2,3-Trichloropropane

Concen: 49.314 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014002.D

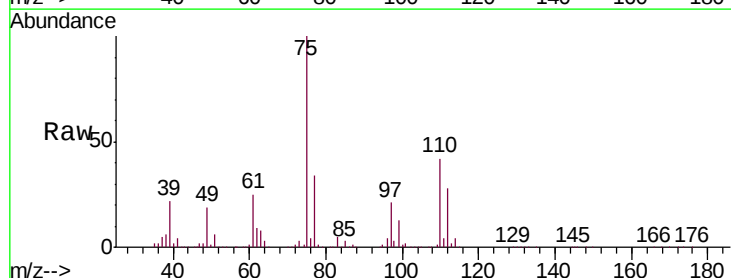
Acq: 10 Dec 2019 21:28

Tgt Ion: 75 Resp: 286166

Ion Ratio Lower Upper

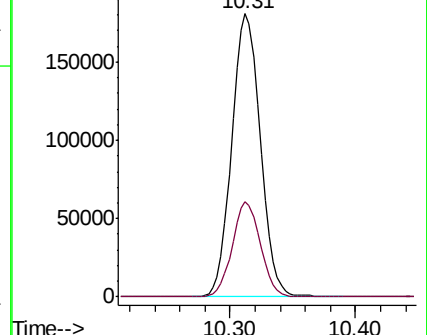
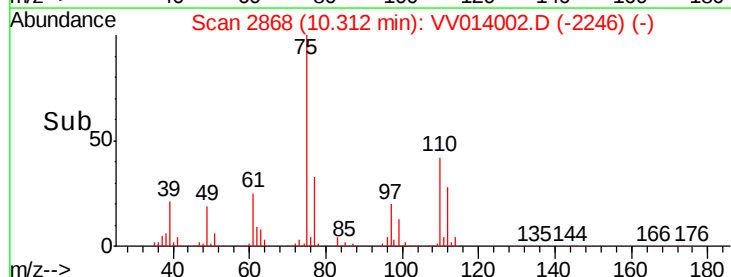
75 100

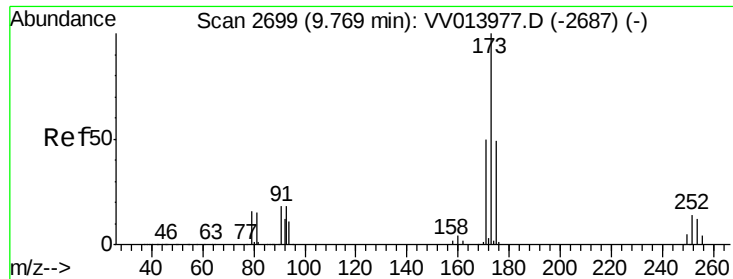
77 32.7 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV014002.D (-2246) (-)

Ion 77.00 (76.70 to 77.70): VV014002.D (-2246) (-)





#61

Bromoform

Concen: 53.615 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

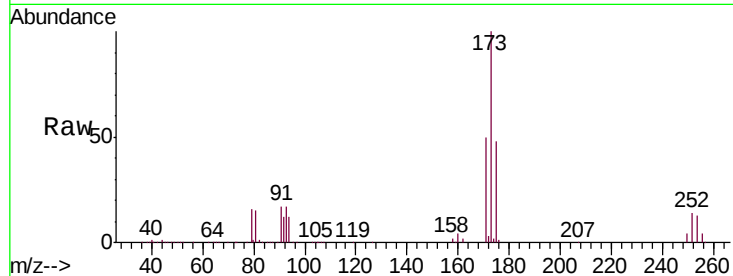
Tgt Ion:173 Resp: 207116

Ion Ratio Lower Upper

173 100

175 48.6 38.4 57.6

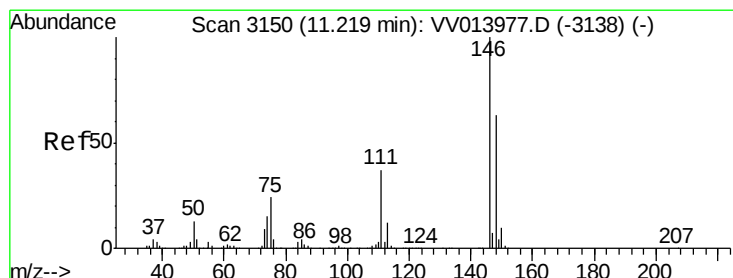
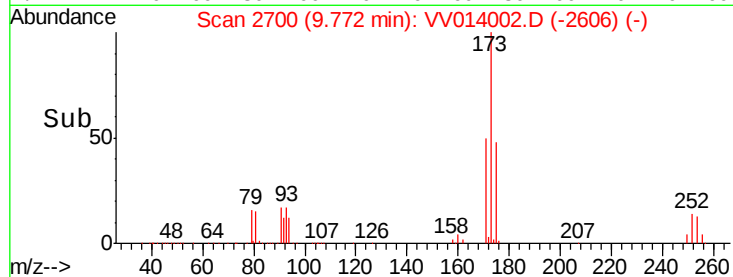
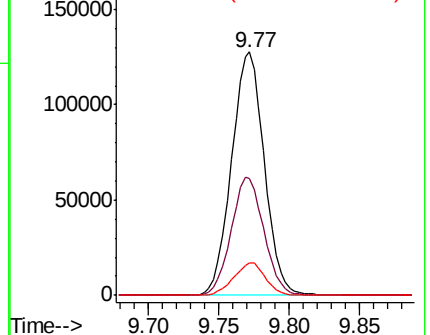
254 12.9 10.5 15.7



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 48.718 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

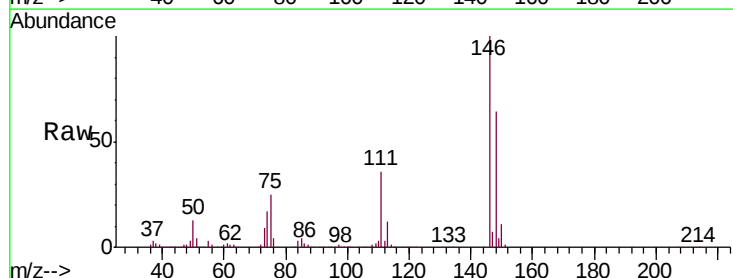
Tgt Ion:146 Resp: 504812

Ion Ratio Lower Upper

146 100

111 36.2 25.8 48.0

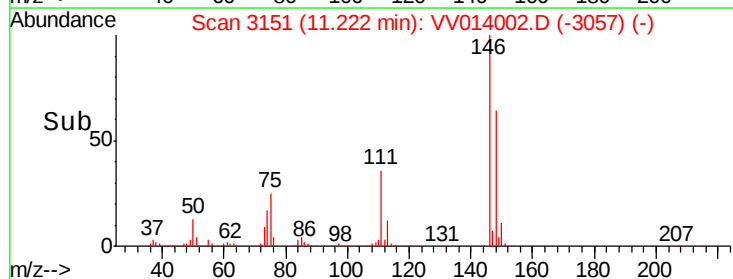
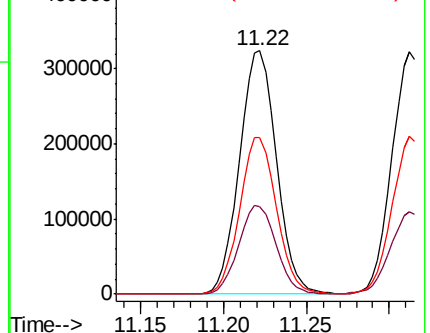
148 64.2 45.2 84.0

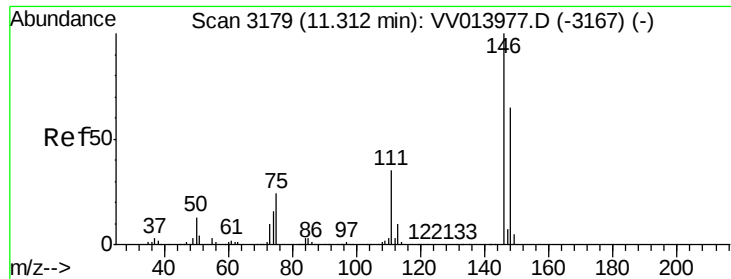


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

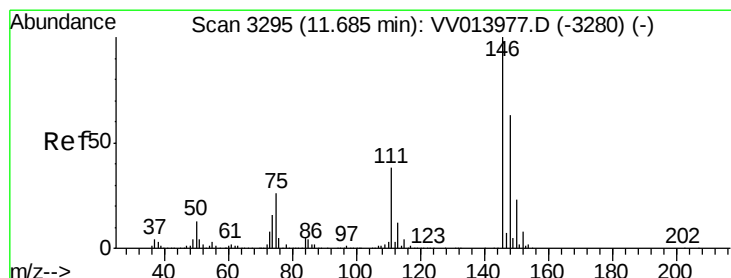
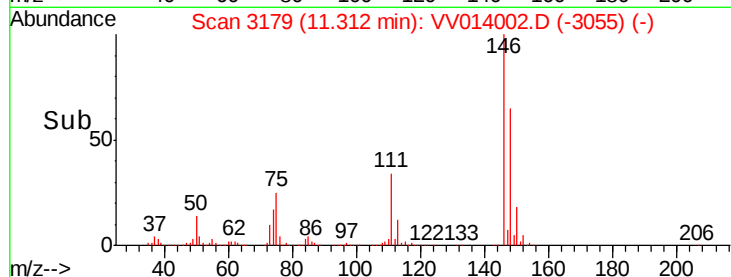
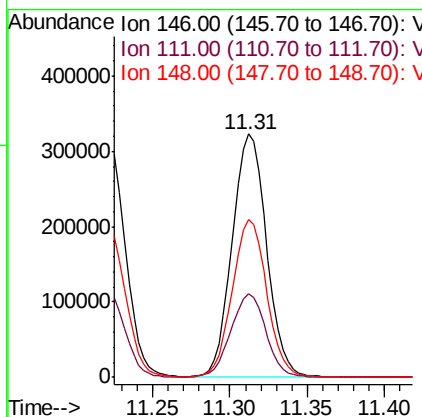
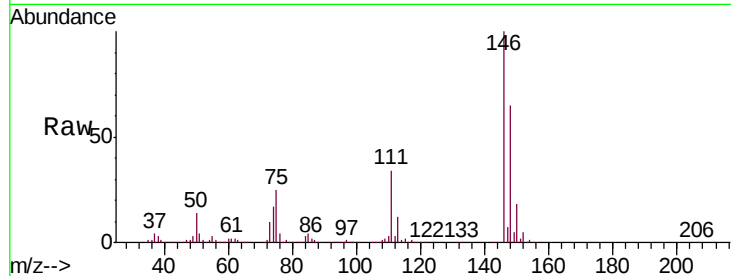




#63
 1,4-Dichlorobenzene
 Concen: 46.564 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

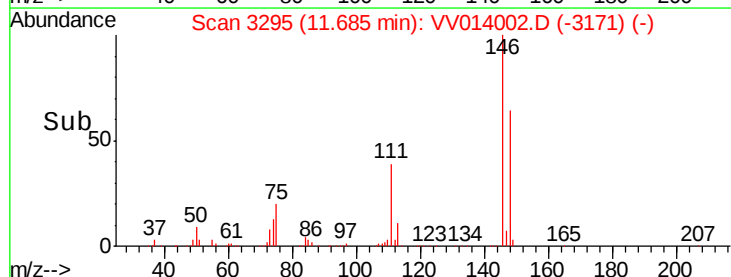
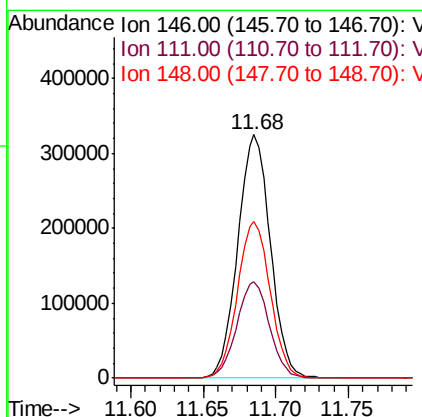
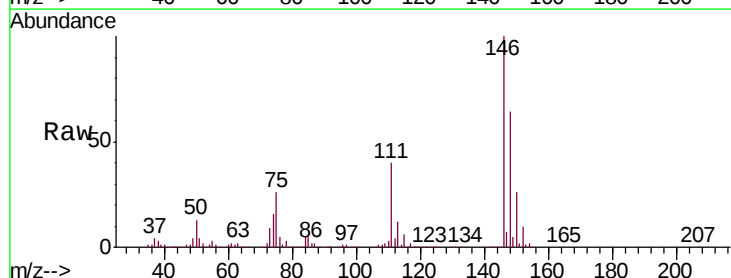
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

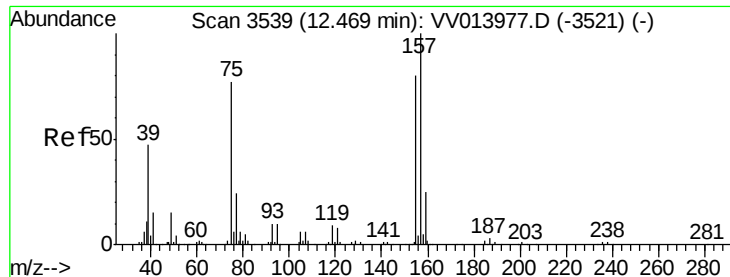
Tgt Ion:146 Resp: 498808
 Ion Ratio Lower Upper
 146 100
 111 34.1 25.4 47.2
 148 64.9 44.9 83.5



#65
 1,2-Dichlorobenzene
 Concen: 48.990 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

Tgt Ion:146 Resp: 507780
 Ion Ratio Lower Upper
 146 100
 111 39.6 31.4 47.0
 148 64.3 51.5 77.3





#66

1,2-Dibromo-3-chloropropane

Concen: 47.529 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

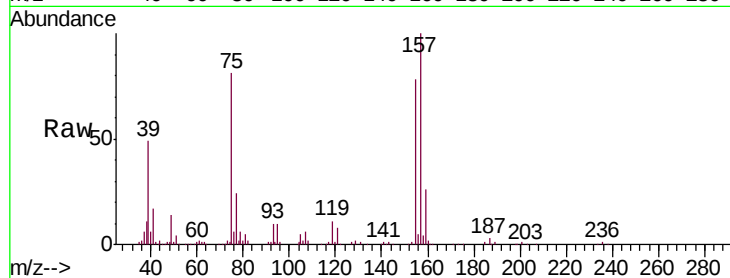
Tgt Ion: 75 Resp: 68465

Ion Ratio Lower Upper

75 100

155 96.6 78.6 117.8

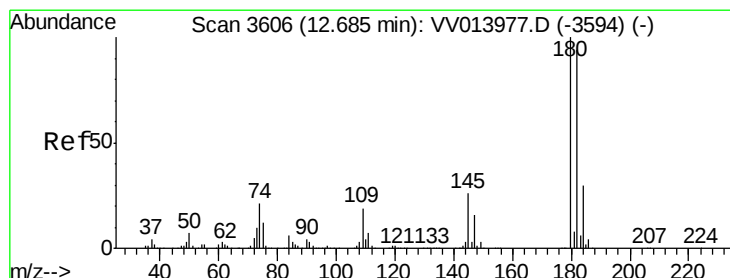
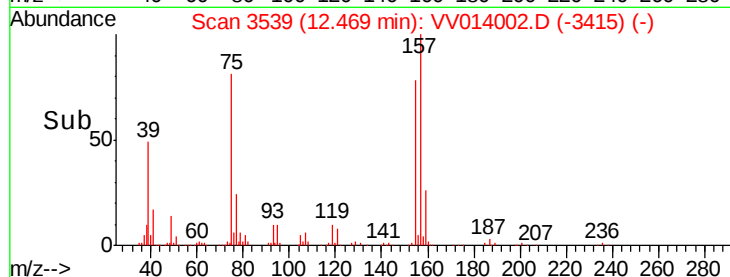
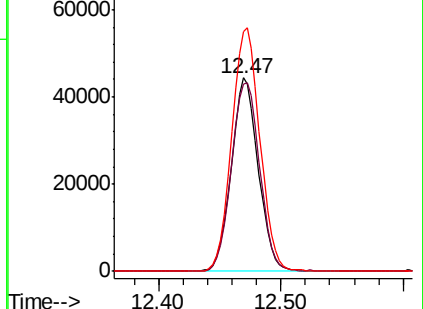
157 123.8 102.6 153.8



Abundance Ion 75.00 (74.70 to 75.70): VV014002.D (-3415) (-)

Ion 155.00 (154.70 to 155.70): VV014002.D (-3415) (-)

Ion 157.00 (156.70 to 157.70): VV014002.D (-3415) (-)



#67

1,3,5-Trichlorobenzene

Concen: 45.454 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Tgt Ion: 180 Resp: 382484

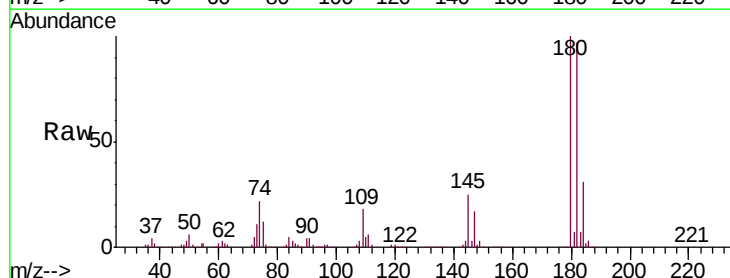
Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.4

184 31.0 24.2 36.4

145 26.0 21.1 31.7

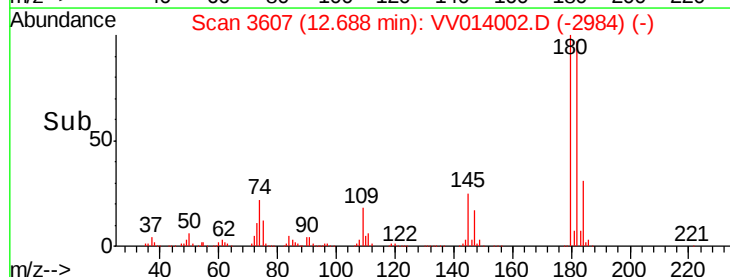
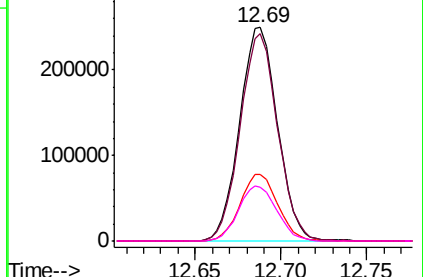


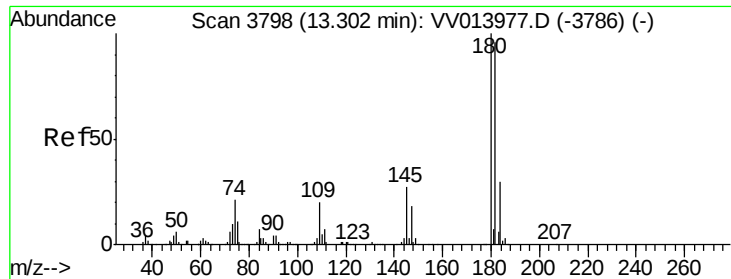
Abundance Ion 180.00 (179.70 to 180.70): VV014002.D (-2984) (-)

Ion 182.00 (181.70 to 182.70): VV014002.D (-2984) (-)

Ion 184.00 (183.70 to 184.70): VV014002.D (-2984) (-)

Ion 145.00 (144.70 to 145.70): VV014002.D (-2984) (-)

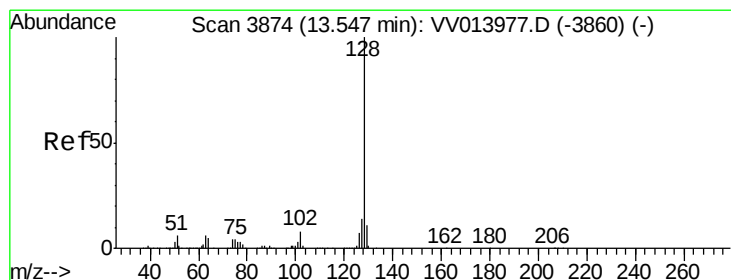
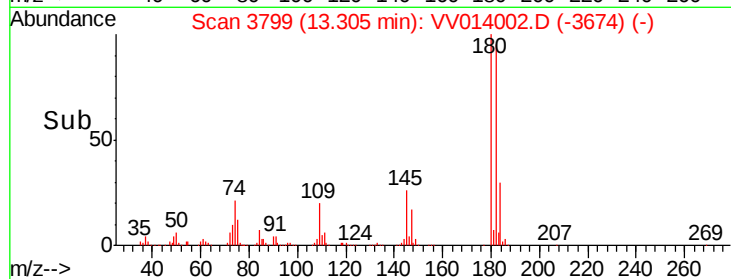
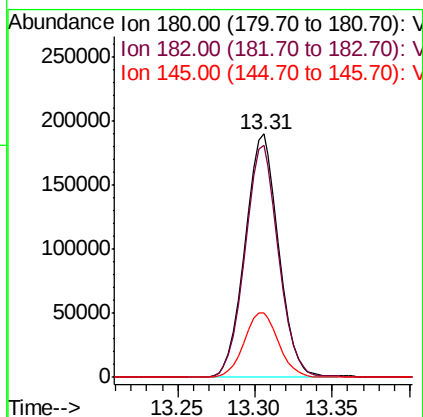
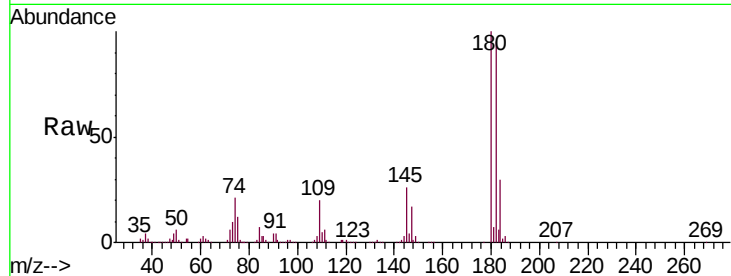




#68
 1,2,4-trichlorobenzene
 Concen: 37.811 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

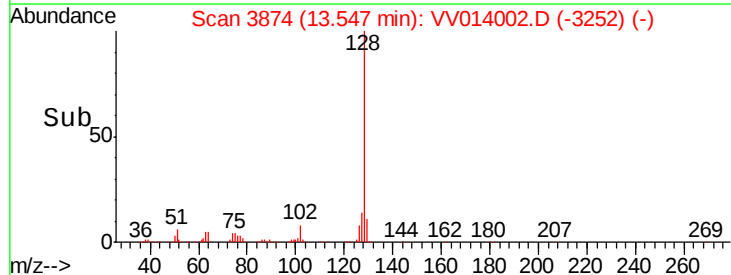
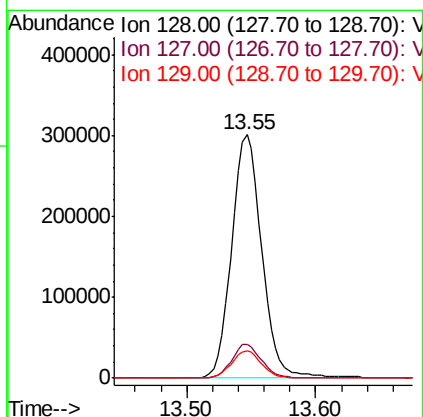
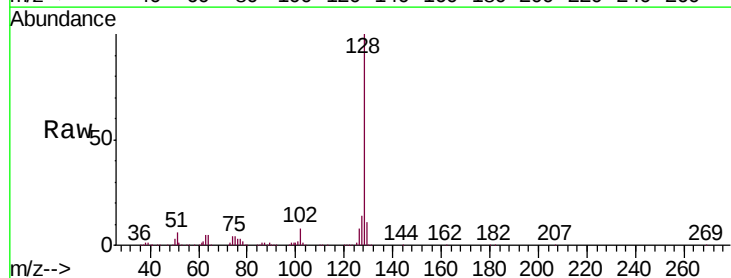
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05076

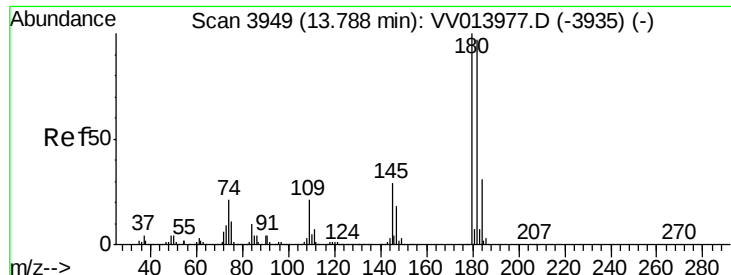
Tgt Ion:180 Resp: 287083
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.2 114.4
 145 27.0 21.9 32.9



#69
 Naphthalene
 Concen: 24.453 ug/L
 RT: 13.55 min Scan# 3874
 Delta R.T. 0.00 min
 Lab File: VV014002.D
 Acq: 10 Dec 2019 21:28

Tgt Ion:128 Resp: 487493
 Ion Ratio Lower Upper
 128 100
 127 13.8 10.5 15.7
 129 11.2 8.6 12.8





#70

1,2,3-Trichlorobenzene

Concen: 39.217 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014002.D

Acq: 10 Dec 2019 21:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD05076

Tgt Ion:180 Resp: 311391

Ion Ratio Lower Upper

180 100

182 97.1 77.0 115.4

145 28.7 22.6 34.0

