

Data File : VV014589.D
Acq On : 17 Feb 2020 12:03
Operator : SY/MD
Sample : VSTD05063
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

Quant Time: Feb 18 05:48:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM021720W.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 18 05:45:10 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	301507	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	286663	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	145419	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	46906	31.42	ug/L	0.00
7) Chloroethane-d5	1.58	69	36213	34.58	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	88037	37.62	ug/L	0.00
21) 2-Butanone-d5	3.92	46	100113	84.04	ug/L	0.00
24) Chloroform-d	4.40	84	162248	44.91	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	102520	46.17	ug/L	0.00
32) Benzene-d6	5.10	84	319499	42.10	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	95159	41.11	ug/L	0.00
41) Toluene-d8	7.36	98	304976	43.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	54124	43.19	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	81628	83.64	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.25	84	136799	44.79	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	119556	44.02	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	99194	42.541	ug/L	100
3) Chloromethane	1.26	50	78145	34.401	ug/L	100
5) Vinyl chloride	1.33	62	61036	34.905	ug/L	100
6) Bromomethane	1.53	94	33500	40.494	ug/L	100
8) Chloroethane	1.60	64	31004	35.579	ug/L	100
9) Trichlorofluoromethane	1.77	101	115427	46.502	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	46875	40.329	ug/L	100
12) 1,1-Dichloroethene	2.14	96	44982	40.481	ug/L	100
13) Acetone	2.18	43	79334	77.870	ug/L	100
14) Carbon disulfide	2.32	76	206967	38.776	ug/L	100
15) Methyl Acetate	2.46	43	77283	40.217	ug/L	100
16) Methylene chloride	2.54	84	92332	43.100	ug/L	100
17) trans-1,2-Dichloroethene	2.79	96	87422	44.124	ug/L	100
18) Methyl tert-butyl Ether	2.80	73	289060	45.719	ug/L	100
19) 1,1-Dichloroethane	3.23	63	156155	44.077	ug/L	100
20) cis-1,2-Dichloroethene	3.96	96	100647	44.969	ug/L	100
22) 2-Butanone	4.01	43	128386	86.010	ug/L	100
23) Bromochloromethane	4.30	128	50491	47.153	ug/L	100
25) Chloroform	4.42	83	173684	47.464	ug/L	100
27) 1,2-Dichloroethane	5.17	62	130486	47.912	ug/L	100
29) Cyclohexane	4.72	56	131957	39.494	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	156023	48.259	ug/L	100
31) Carbon tetrachloride	4.87	117	139716	48.733	ug/L	100
33) Benzene	5.14	78	360638	44.212	ug/L	100
34) Trichloroethene	5.96	95	96669	44.367	ug/L	100
35) Methylcyclohexane	6.17	83	149606	42.446	ug/L	100
37) 1,2-Dichloropropane	6.22	63	87905	42.538	ug/L	100
38) Bromodichloromethane	6.55	83	133811	47.215	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	160475	45.880	ug/L	100
40) 4-Methyl-2-pentanone	7.26	43	224032	84.617	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	397218	45.088	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	145642	46.426	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	94267	46.616	ug/L	100
46) Tetrachloroethene	8.02	164	75463	45.338	ug/L	100
48) 2-Hexanone	8.18	43	175477	86.561	ug/L	100
49) Dibromochloromethane	8.29	129	114304	49.435	ug/L	100
50) 1,2-Dibromoethane	8.39	107	102375	46.808	ug/L	100
51) Chlorobenzene	8.92	112	265704	45.918	ug/L	100
52) Ethylbenzene	9.05	91	453237	45.794	ug/L	100
53) m,p-Xylene	9.18	106	173218	45.381	ug/L	100
54) o-Xylene	9.58	106	170040	46.485	ug/L	100
55) Styrene	9.60	104	293301	46.993	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	149504	47.277	ug/L	100
59) Bromoform	9.77	173	80213	49.690	ug/L	100
60) Isopropylbenzene	9.97	105	452608	46.757	ug/L	100
61) 1,2,3-Trichloropropane	10.31	75	120407	47.517	ug/L	100
62) 1,3,5-Trimethylbenzene	10.58	105	385982	46.667	ug/L	100
63) 1,2,4-Trimethylbenzene	10.95	105	378731	46.507	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	213122	46.622	ug/L	100
65) 1,4-Dichlorobenzene	11.31	146	215526	45.877	ug/L	100
67) 1,2-Dichlorobenzene	11.68	146	209611	47.084	ug/L	100
68) 1,2-Dibromo-3-chloropropan	12.47	75	35366	49.447	ug/L	100
69) 1,3,5-Trichlorobenzene	12.69	180	154055	47.654	ug/L	100
70) 1,2,4-trichlorobenzene	13.30	180	142894	48.290	ug/L	100
71) Naphthalene	13.54	128	455887	47.044	ug/L	100
72) 1,2,3-Trichlorobenzene	13.78	180	138896	48.173	ug/L	100

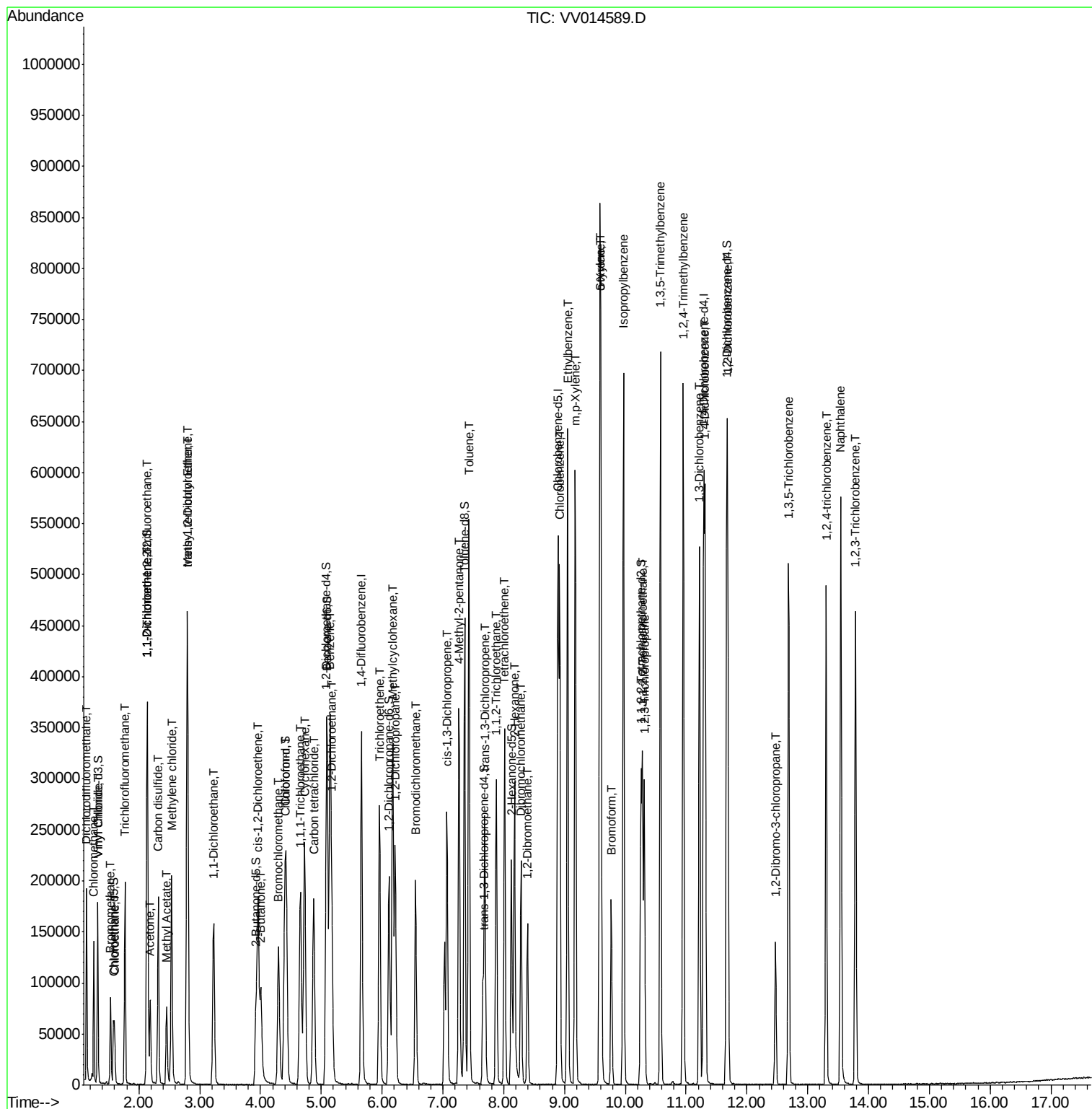
(#) = qualifier out of range (m) = manual integration (+) = signals summed

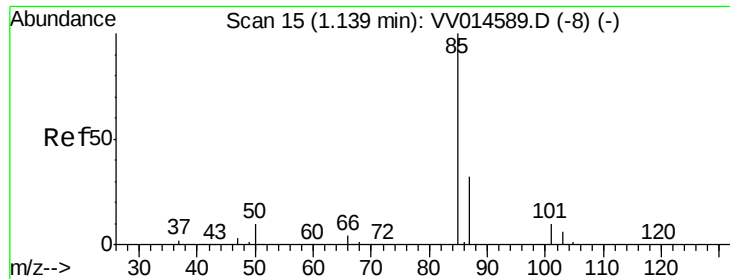
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#2

Dichlorodifluoromethane

Concen: 42.541 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

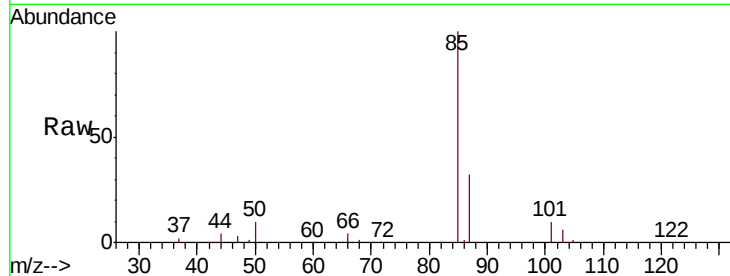
VSTD050204

Tgt Ion: 85 Resp: 99194

Ion Ratio Lower Upper

85 100

87 32.8 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VV014589.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014589.D (-8) (-)

1.14

120000

100000

80000

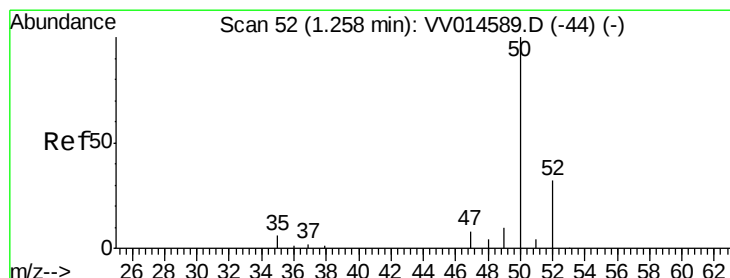
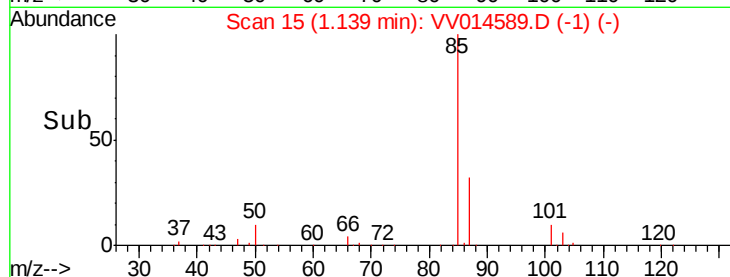
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 34.401 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014589.D

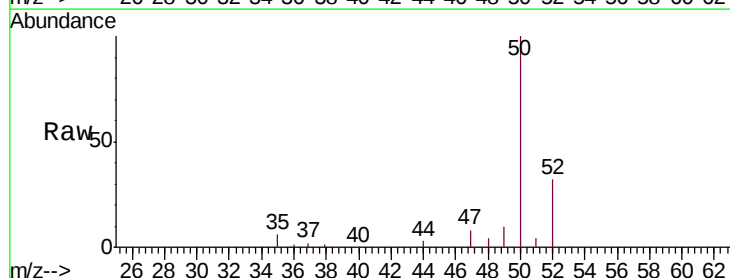
Acq: 17 Feb 2020 12:03

Tgt Ion: 50 Resp: 78145

Ion Ratio Lower Upper

50 100

52 32.3 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VV014589.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014589.D (-44) (-)

1.26

80000

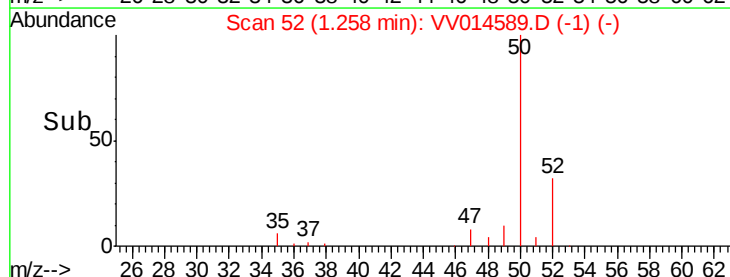
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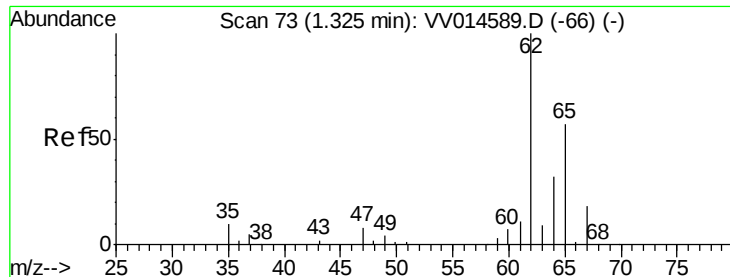
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 34.905 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

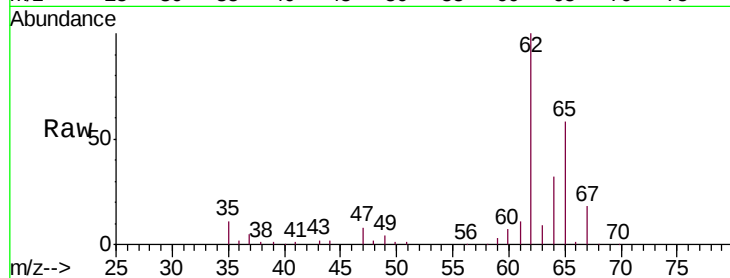
VSTD050204

Tgt Ion: 62 Resp: 61036

Ion Ratio Lower Upper

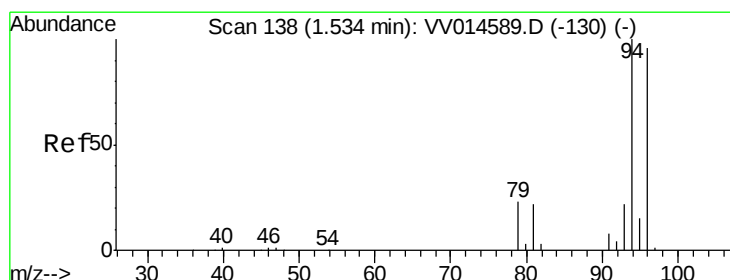
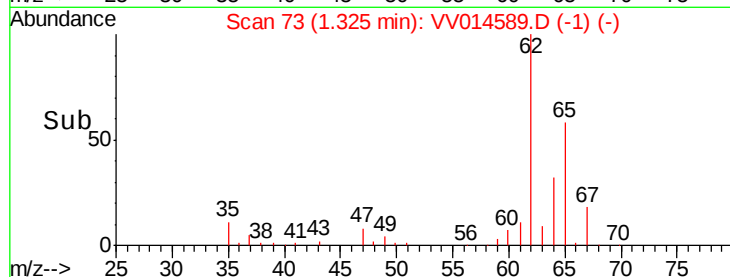
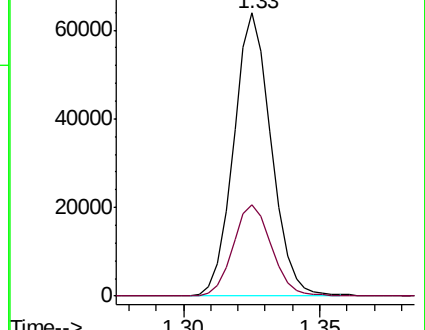
62 100

64 32.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VV014589.D (-66) (-)

Ion 64.00 (63.70 to 64.70): VV014589.D (-66) (-)



#6

Bromomethane

Concen: 40.494 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV014589.D

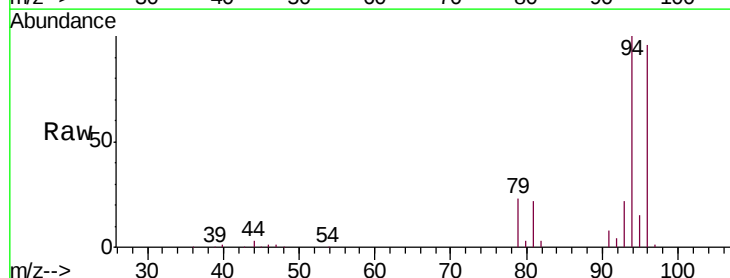
Acq: 17 Feb 2020 12:03

Tgt Ion: 94 Resp: 33500

Ion Ratio Lower Upper

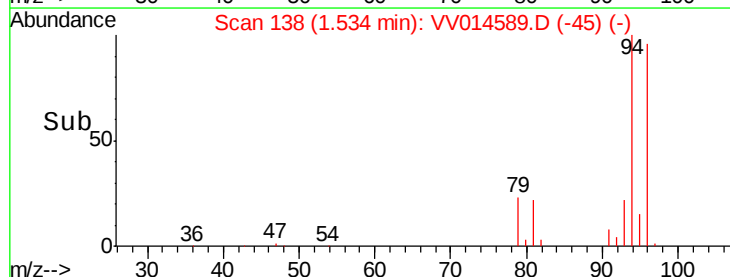
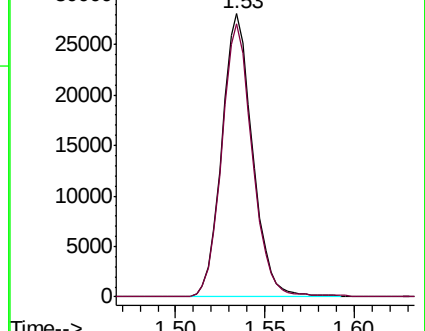
94 100

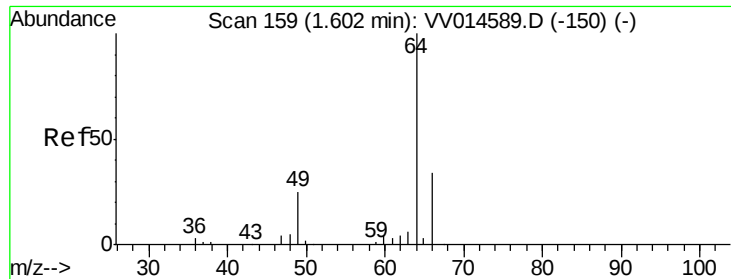
96 96.3 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV014589.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV014589.D (-130) (-)





#8

Chloroethane

Concen: 35.579 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

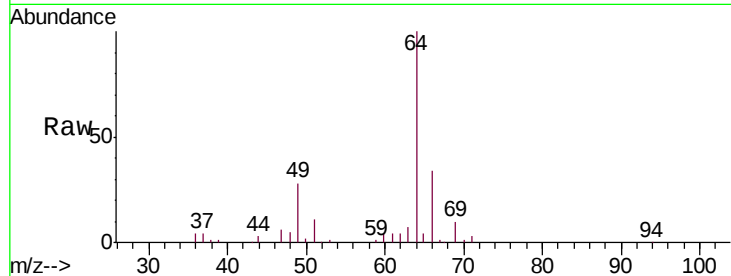
VSTD050204

Tgt Ion: 64 Resp: 31004

Ion Ratio Lower Upper

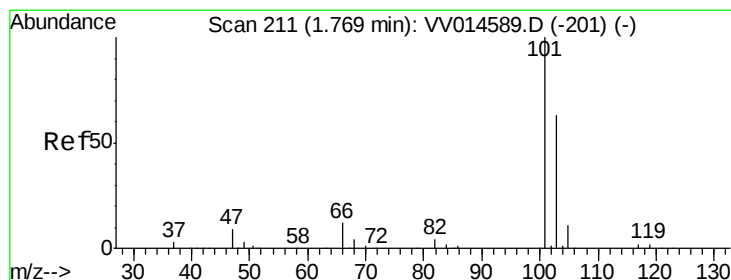
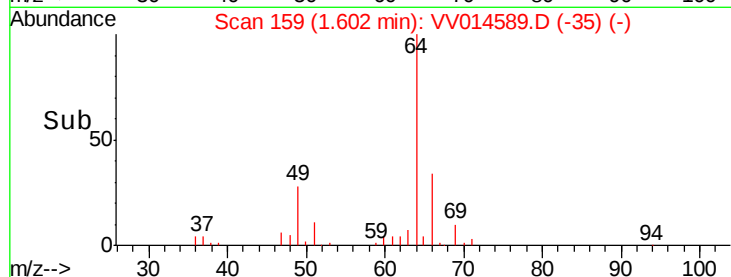
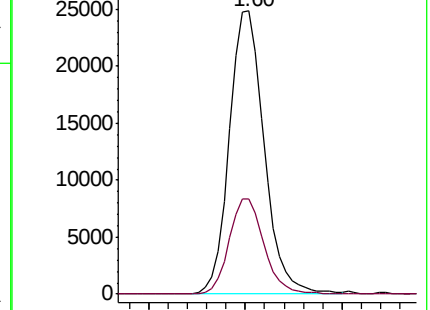
64 100

66 33.7 23.6 43.8



Abundance Ion 64.00 (63.70 to 64.70): VV014589.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV014589.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 46.502 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV014589.D

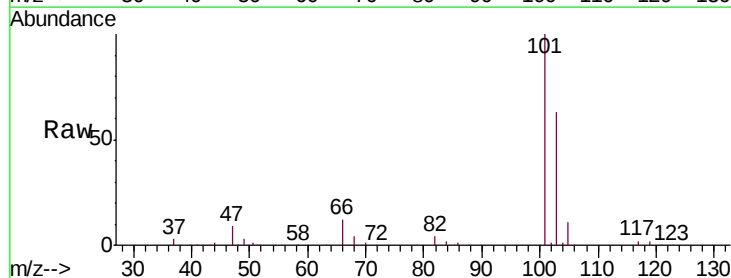
Acq: 17 Feb 2020 12:03

Tgt Ion: 101 Resp: 115427

Ion Ratio Lower Upper

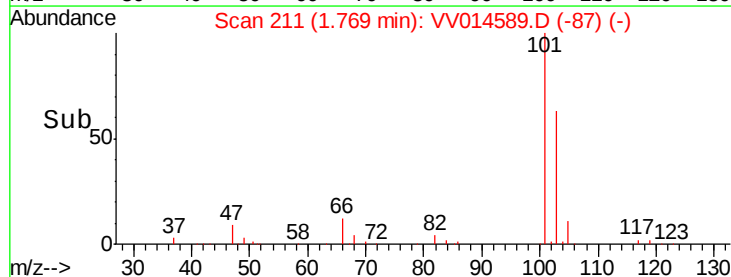
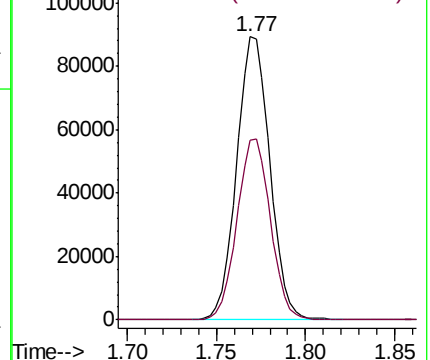
101 100

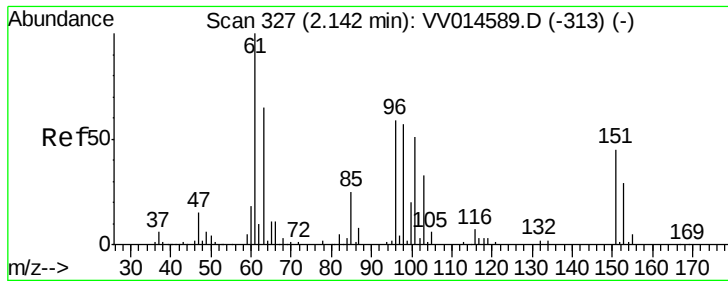
103 64.2 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VV014589.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014589.D (-201) (-)





#10

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

Concen: 40.329 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD050204

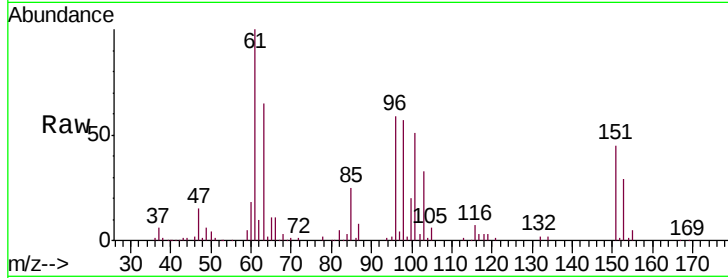
Tgt Ion: 101 Resp: 46875

Ion Ratio Lower Upper

101 100

85 47.4 37.9 56.9

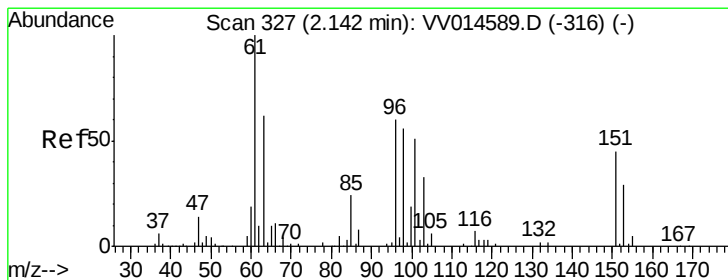
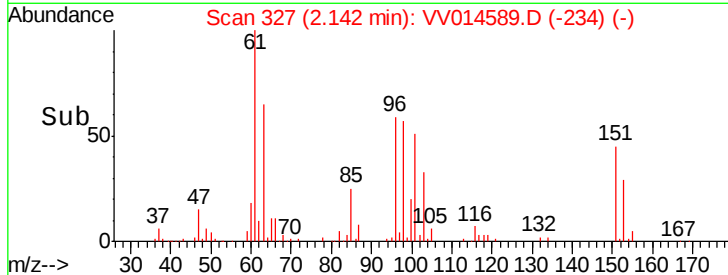
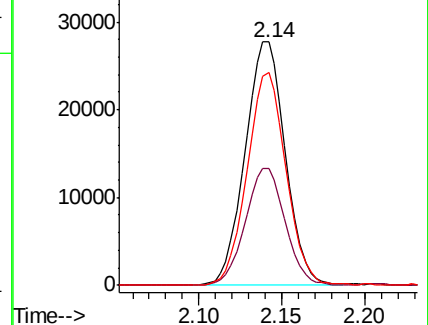
151 84.6 67.7 101.5



Abundance Ion 101.00 (100.70 to 101.70): VV014589.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV014589.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV014589.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 40.481 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

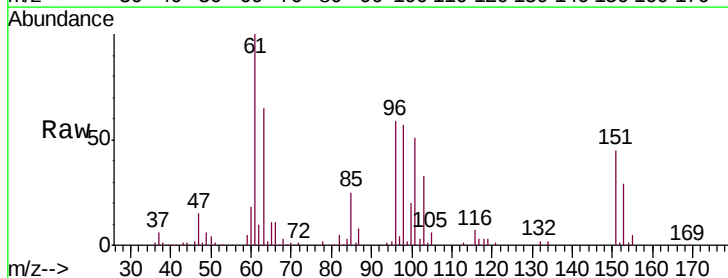
Tgt Ion: 96 Resp: 44982

Ion Ratio Lower Upper

96 100

61 169.0 118.3 219.7

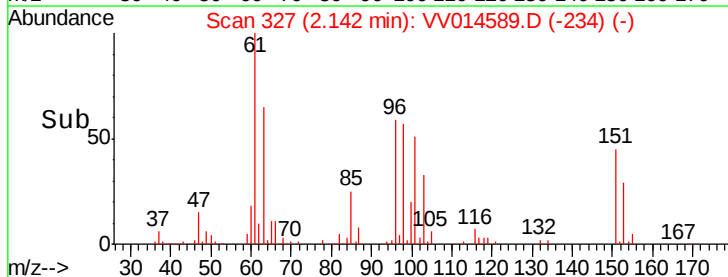
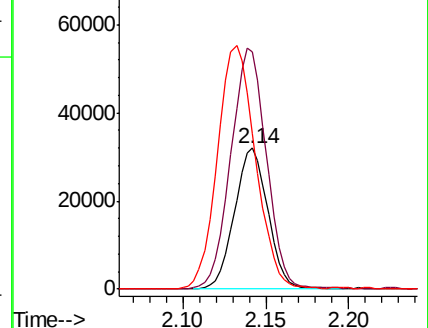
63 110.7 77.5 143.9

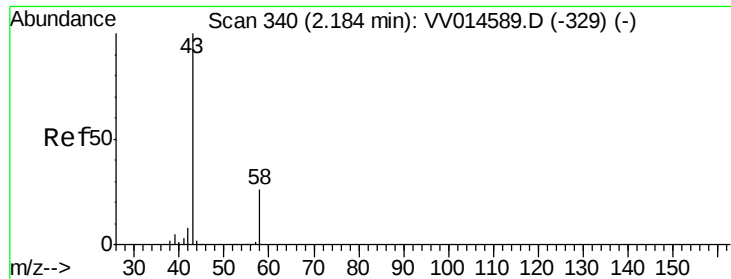


Abundance Ion 96.00 (95.70 to 96.70): VV014589.D (-316) (-)

Ion 61.00 (60.70 to 61.70): VV014589.D (-316) (-)

Ion 63.00 (62.70 to 63.70): VV014589.D (-316) (-)





#13

Acetone

Concen: 77.870 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

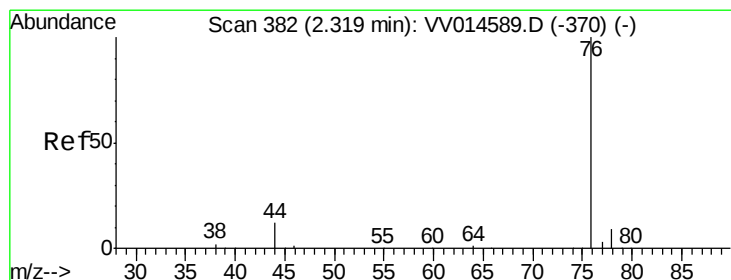
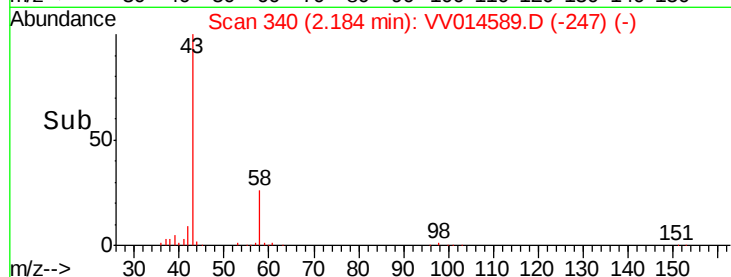
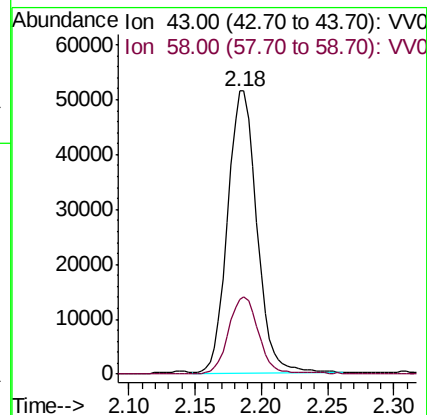
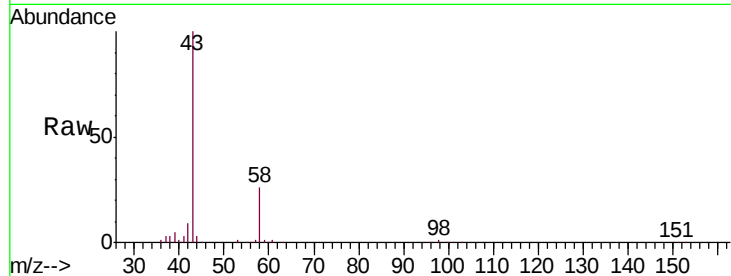
VSTD050204

Tgt Ion: 43 Resp: 79334

Ion Ratio Lower Upper

43 100

58 27.9 0.0 55.8



#14

Carbon disulfide

Concen: 38.776 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014589.D

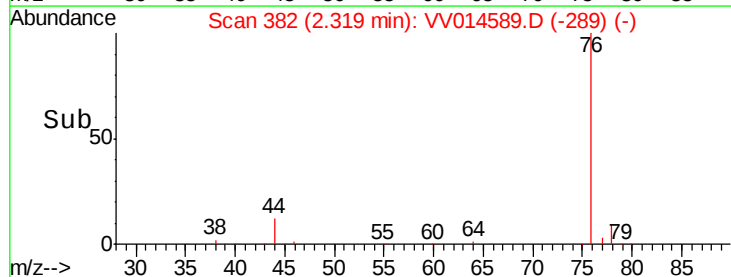
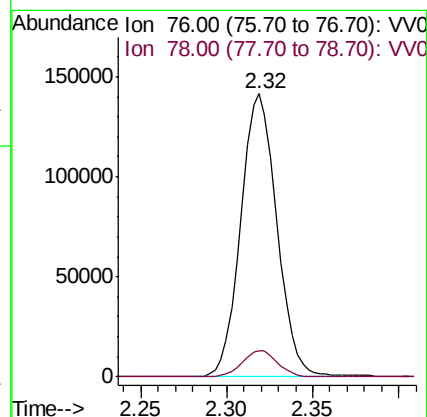
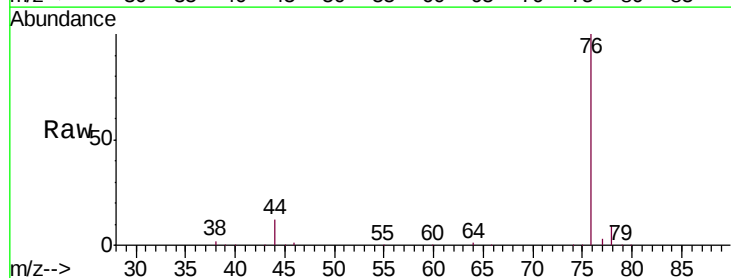
Acq: 17 Feb 2020 12:03

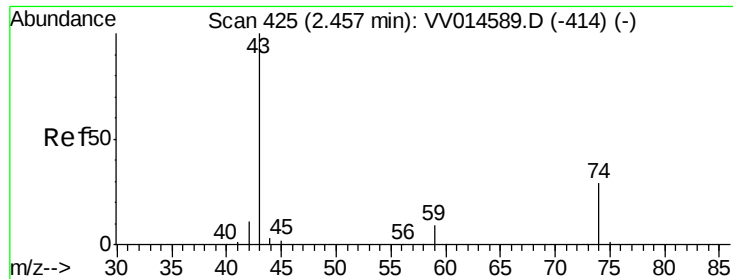
Tgt Ion: 76 Resp: 206967

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3

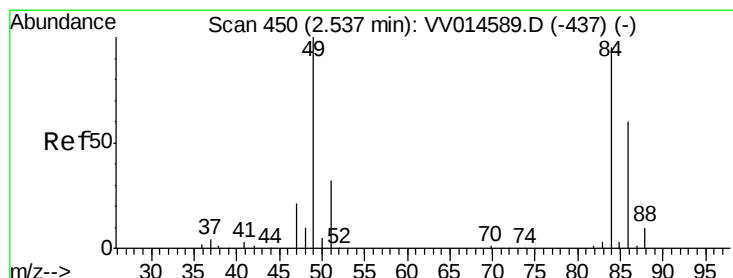
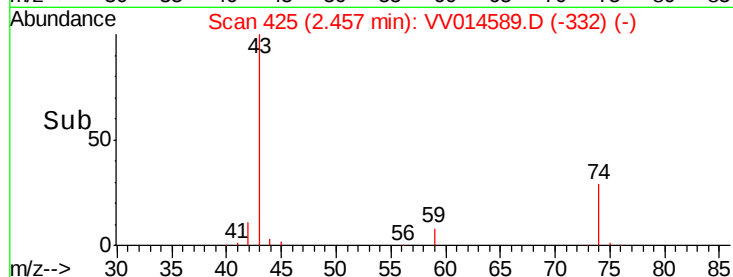
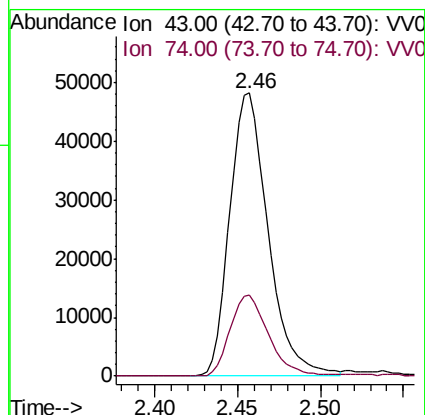
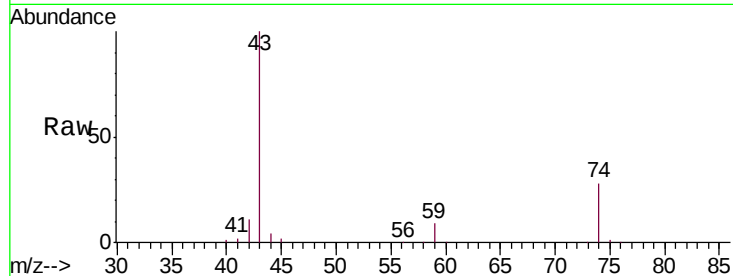




#15
Methyl Acetate
Concen: 40.217 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

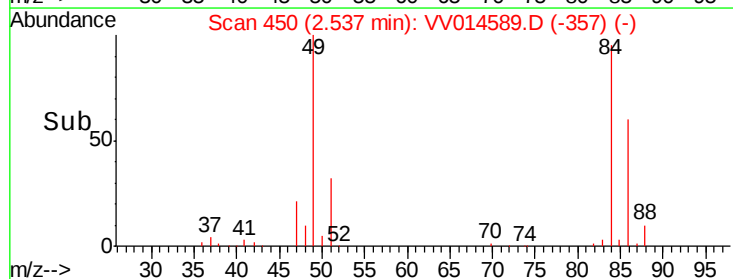
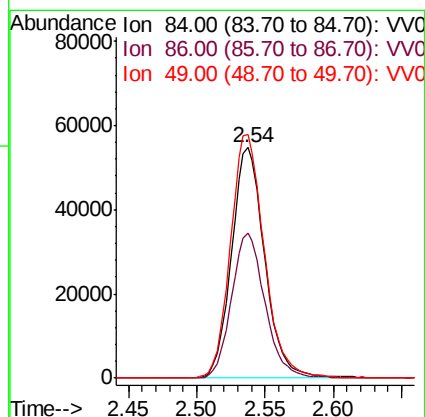
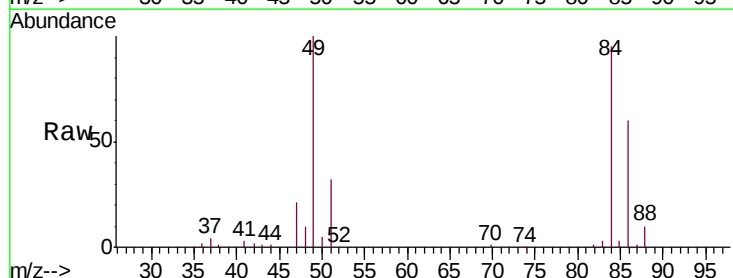
Instrument :
MSVOA_V
ClientSampled :
VSTD050204

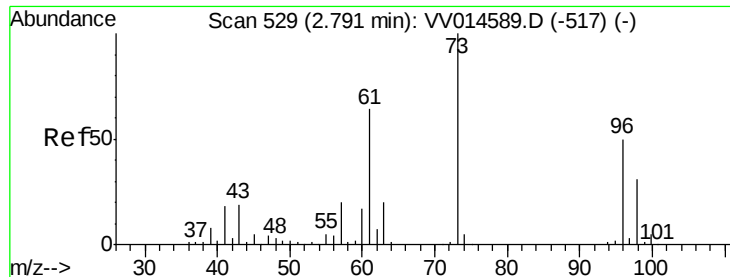
Tgt Ion: 43 Resp: 77283
Ion Ratio Lower Upper
43 100
74 28.6 22.9 34.3



#16
Methylene chloride
Concen: 43.100 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Tgt Ion: 84 Resp: 92332
Ion Ratio Lower Upper
84 100
86 62.9 44.0 81.8
49 105.7 74.0 137.4





#17

trans-1,2-Dichloroethene

Concen: 44.124 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD050204

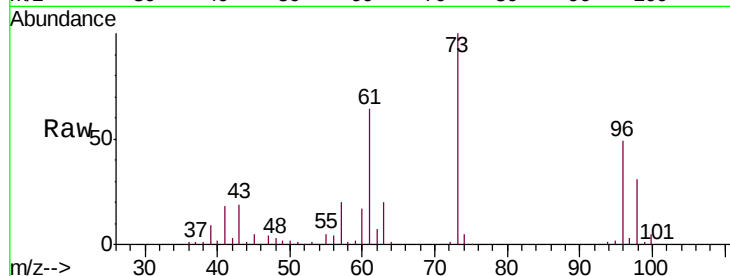
Tgt Ion: 96 Resp: 87422

Ion Ratio Lower Upper

96 100

61 129.5 90.6 168.3

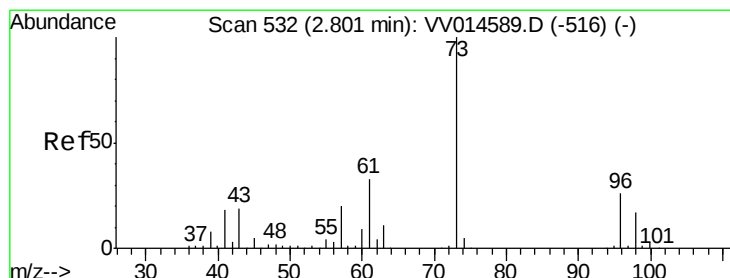
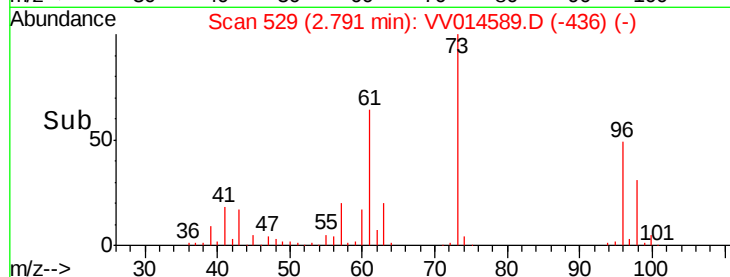
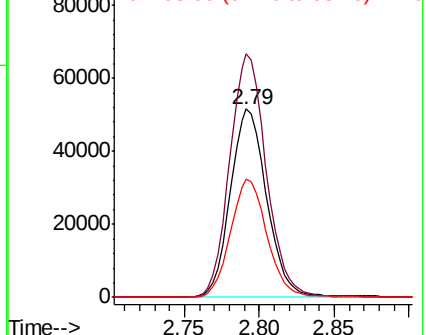
98 63.2 44.2 82.2



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: 45.719 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

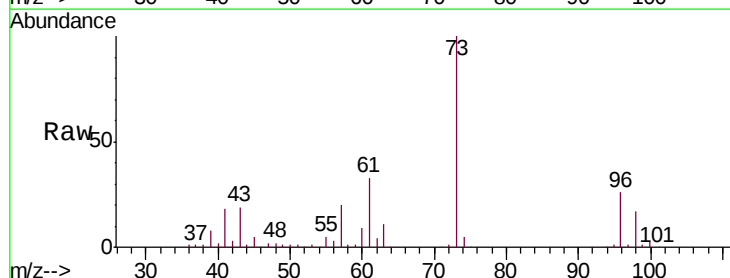
Tgt Ion: 73 Resp: 289060

Ion Ratio Lower Upper

73 100

43 18.4 14.7 22.1

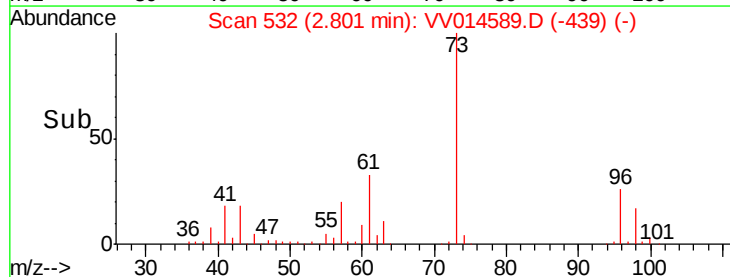
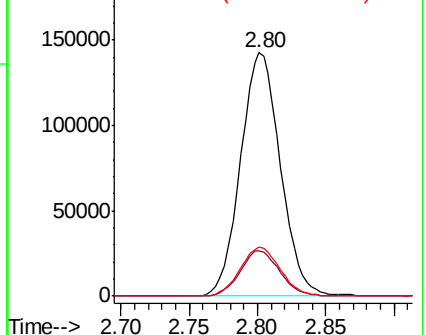
57 20.3 16.2 24.4

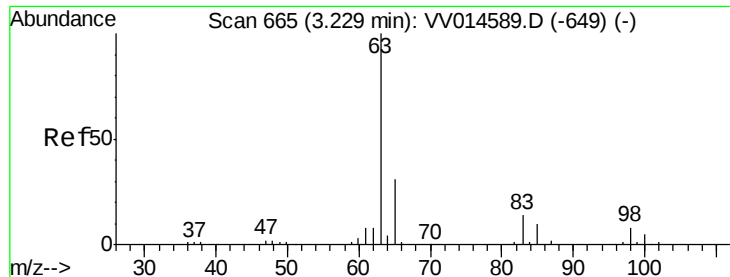


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

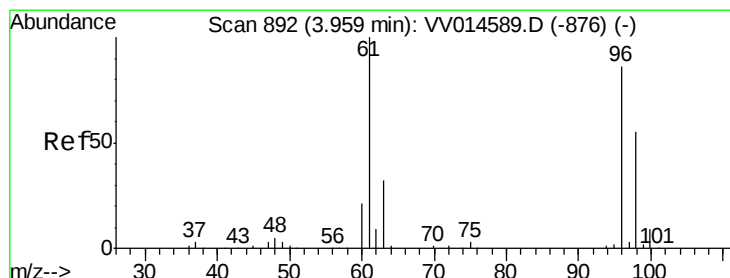
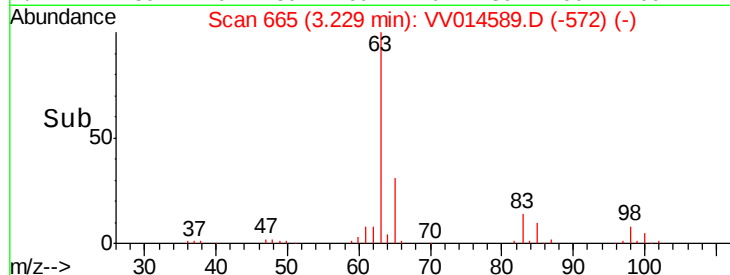
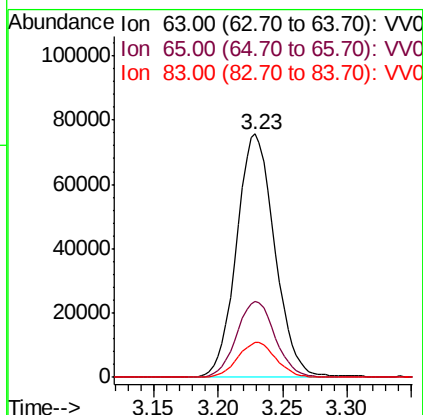
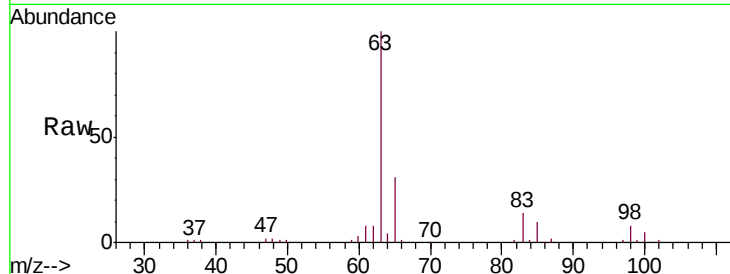




#19
 1,1-Dichloroethane
 Concen: 44.077 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

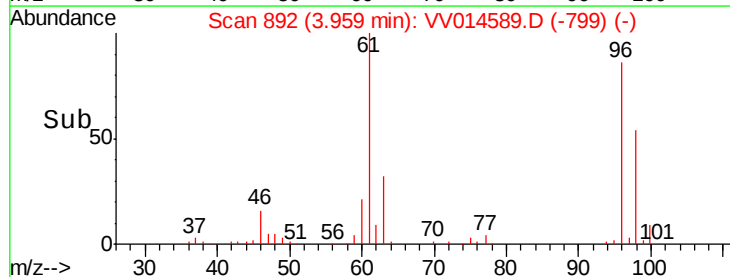
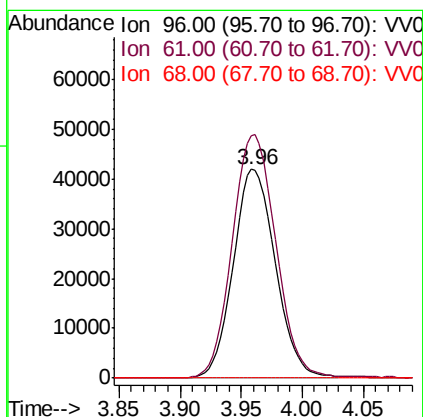
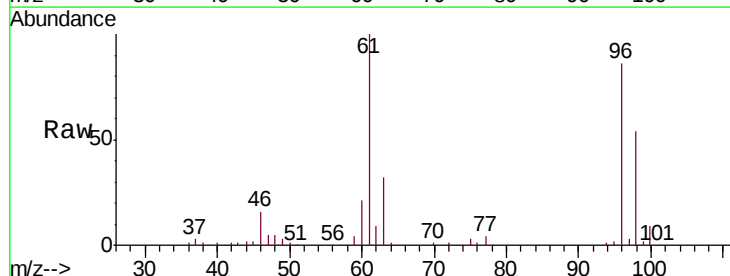
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

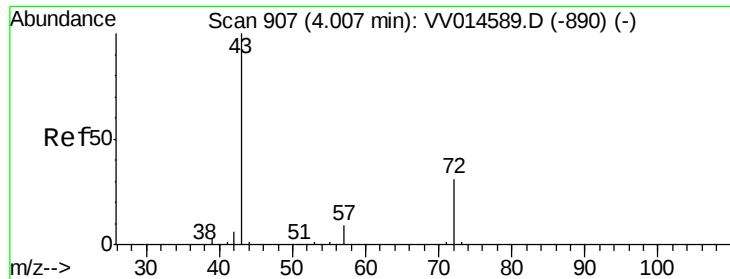
Tgt Ion: 63 Resp: 156155
 Ion Ratio Lower Upper
 63 100
 65 31.1 21.8 40.4
 83 14.1 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 44.969 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion: 96 Resp: 100647
 Ion Ratio Lower Upper
 96 100
 61 116.3 81.4 151.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 86.010 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

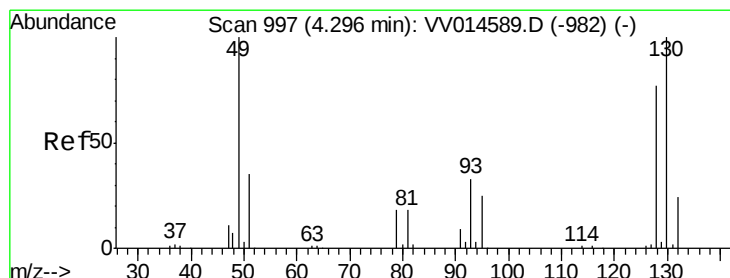
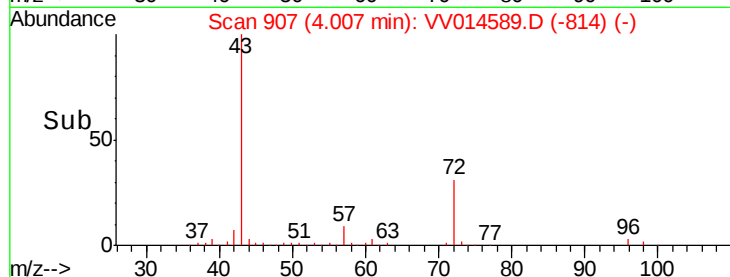
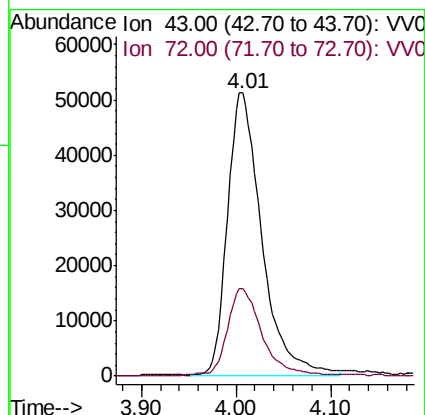
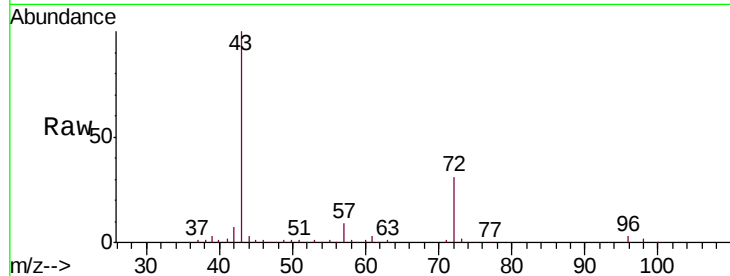
VSTD050204

Tgt Ion: 43 Resp: 128386

Ion Ratio Lower Upper

43 100

72 30.2 15.1 45.3



#23

Bromochloromethane

Concen: 47.153 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Tgt Ion: 128 Resp: 50491

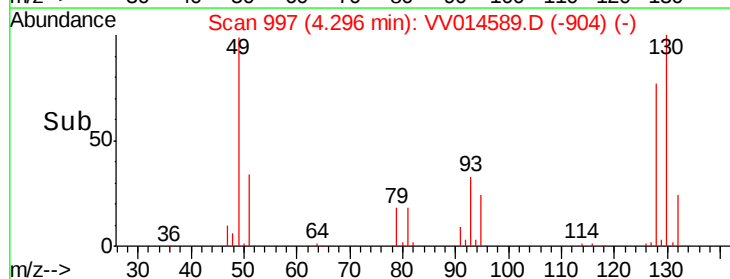
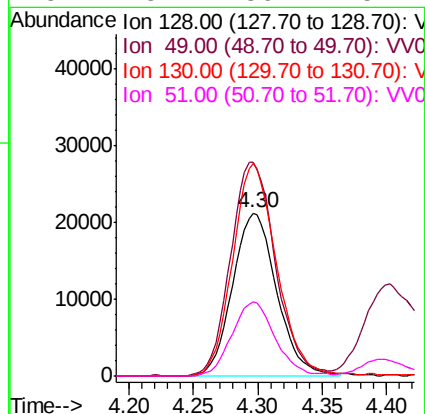
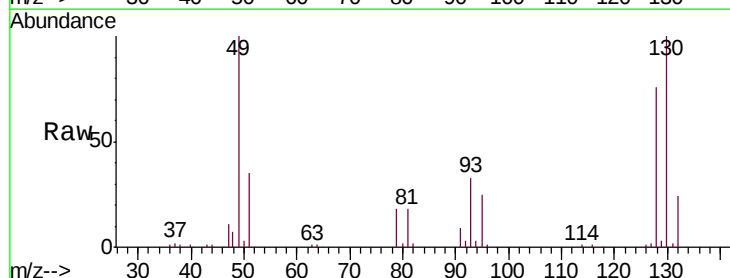
Ion Ratio Lower Upper

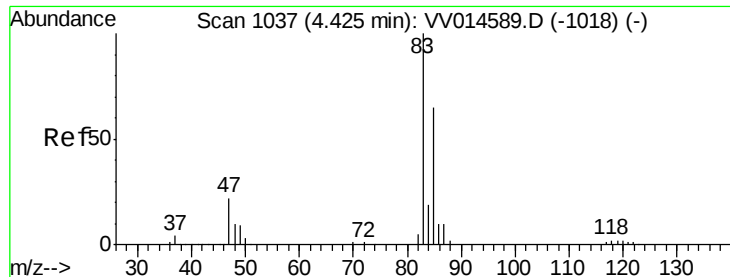
128 100

49 131.0 91.7 170.3

130 130.6 91.4 169.8

51 45.2 36.2 54.2

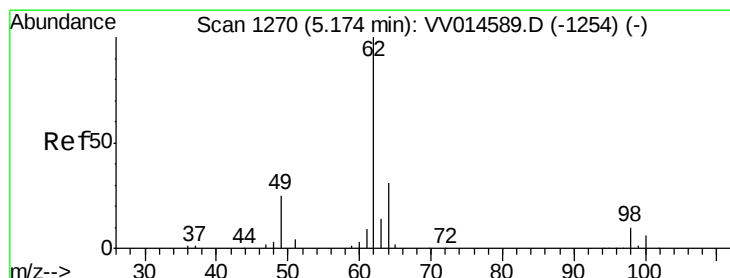
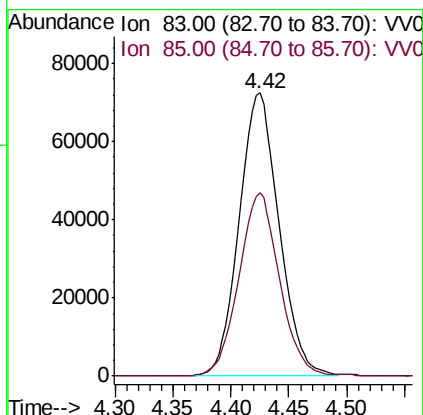
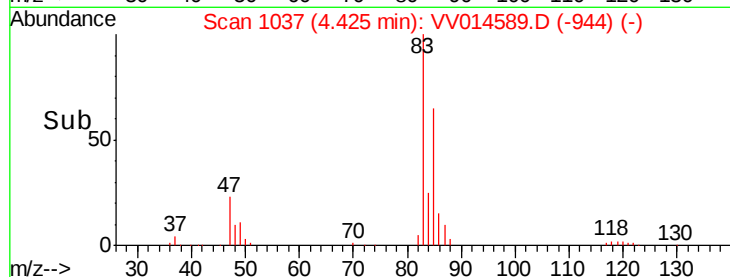
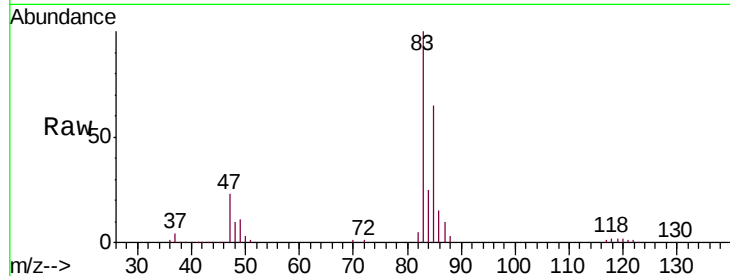




#25
Chloroform
Concen: 47.464 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

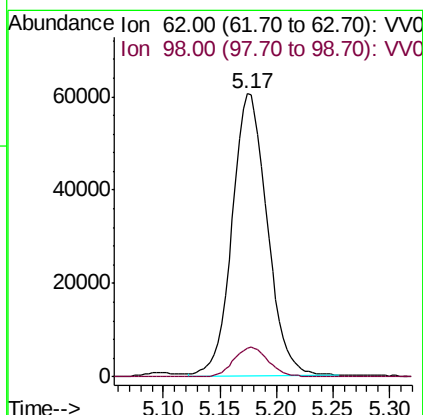
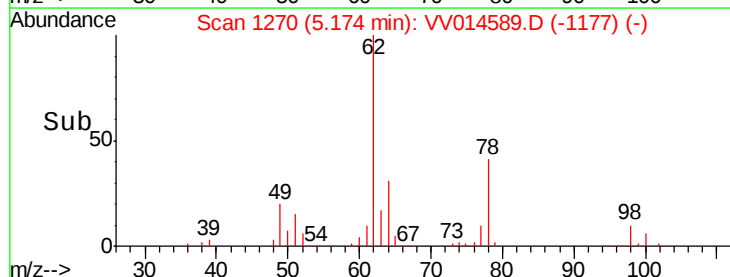
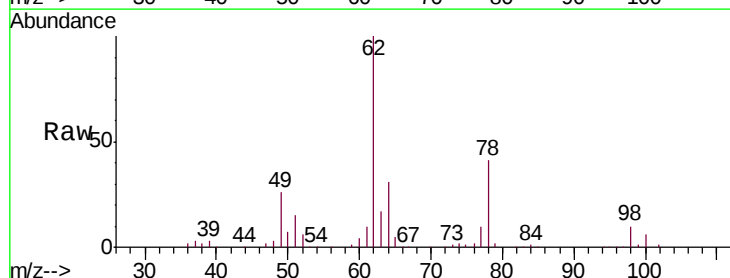
Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

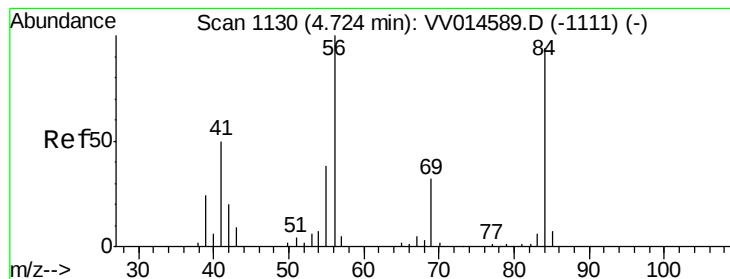
Tgt Ion: 83 Resp: 173684
Ion Ratio Lower Upper
83 100
85 64.9 45.4 84.4



#27
1,2-Dichloroethane
Concen: 47.912 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Tgt Ion: 62 Resp: 130486
Ion Ratio Lower Upper
62 100
98 10.1 8.1 12.1





#29

Cyclohexane

Concen: 39.494 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampled :

VSTD050204

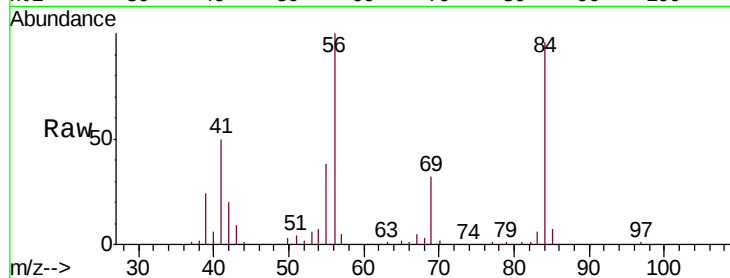
Tgt Ion: 56 Resp: 131957

Ion Ratio Lower Upper

56 100

69 33.2 26.6 39.8

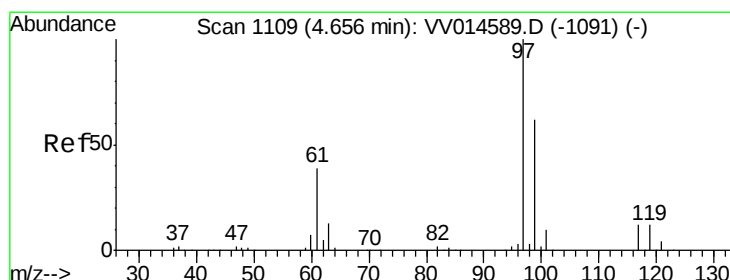
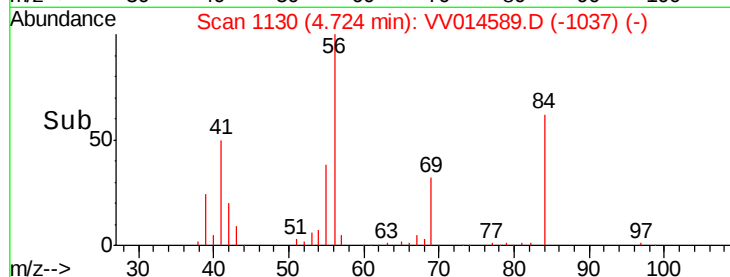
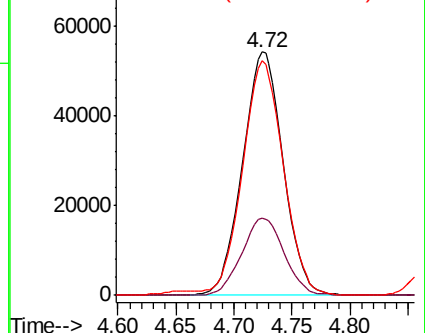
84 95.7 76.6 114.8



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: 48.259 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

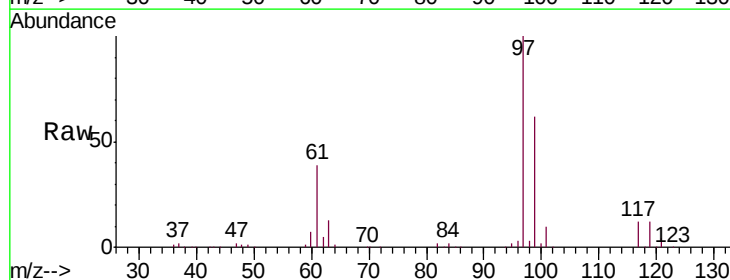
Tgt Ion: 97 Resp: 156023

Ion Ratio Lower Upper

97 100

99 63.3 50.6 76.0

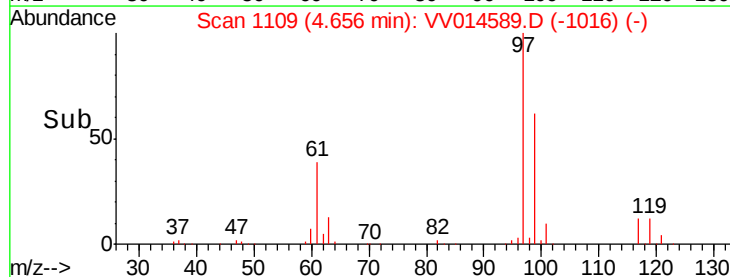
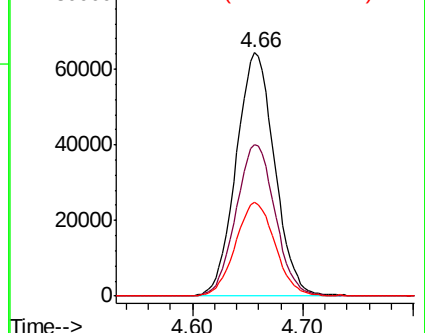
61 39.5 31.6 47.4

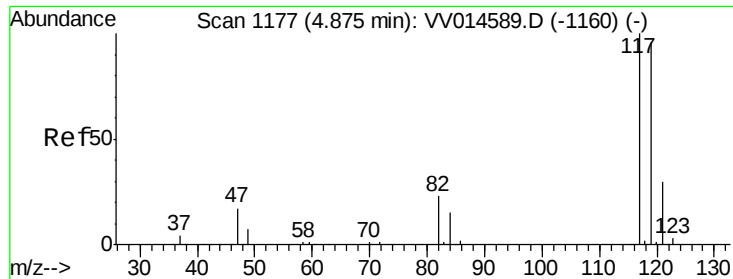


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 48.733 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

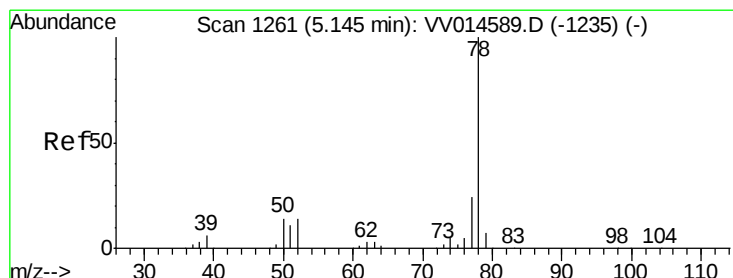
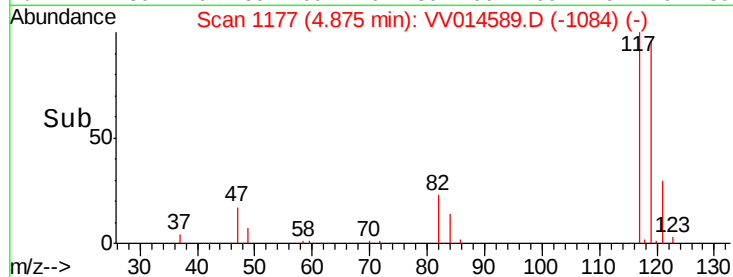
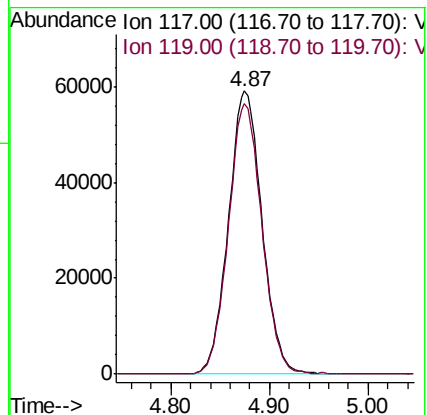
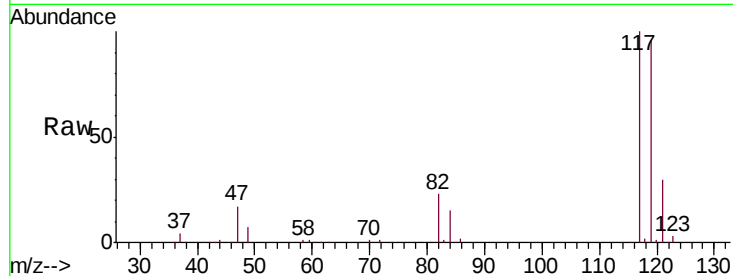
VSTD050204

Tgt Ion:117 Resp: 139716

Ion Ratio Lower Upper

117 100

119 95.3 76.2 114.4



#33

Benzene

Concen: 44.212 ug/L

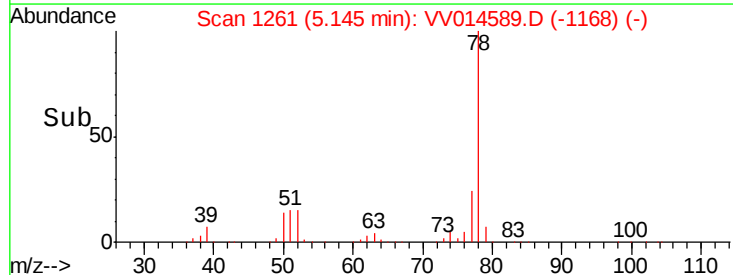
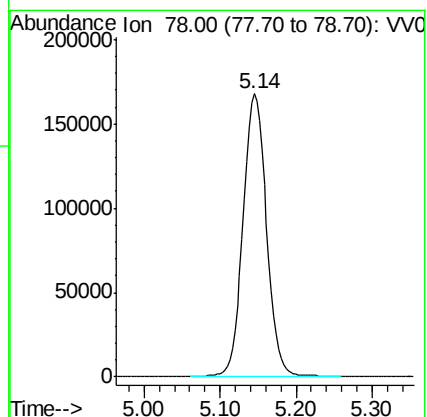
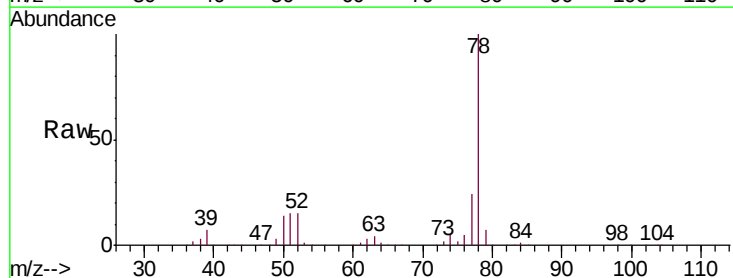
RT: 5.14 min Scan# 1261

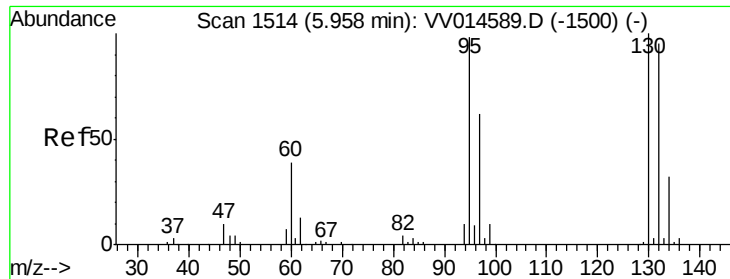
Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Tgt Ion: 78 Resp: 360638

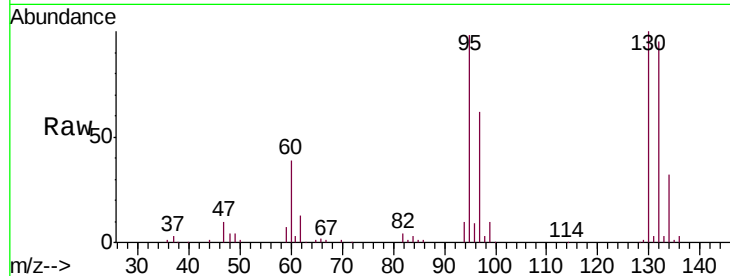




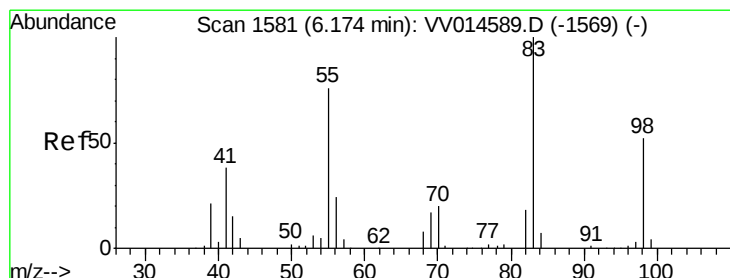
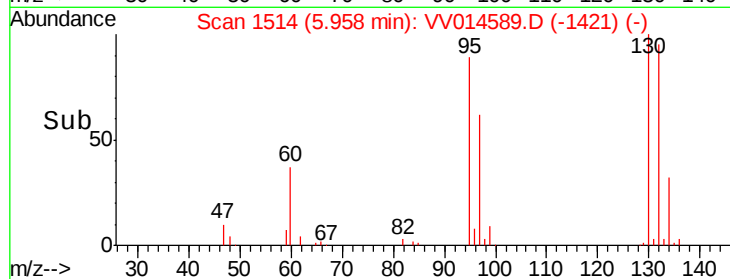
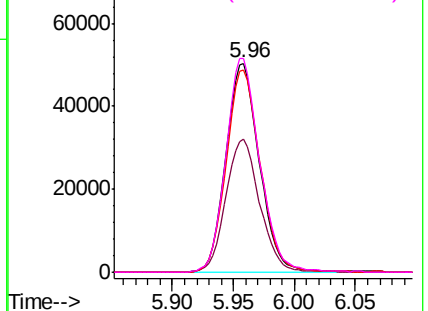
#34
 Trichloroethene
 Concen: 44.367 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

Tgt Ion: 95 Resp: 96669
 Ion Ratio Lower Upper
 95 100
 97 63.4 44.4 82.4
 132 96.8 67.8 125.8
 130 102.0 71.4 132.6

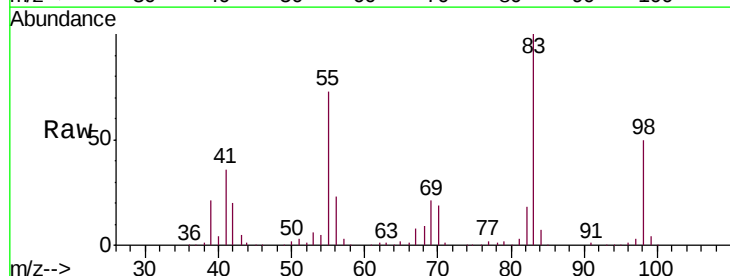


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

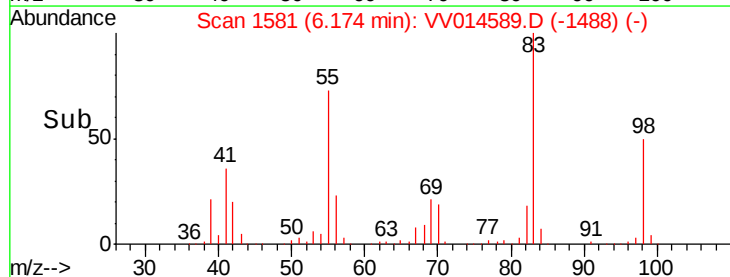
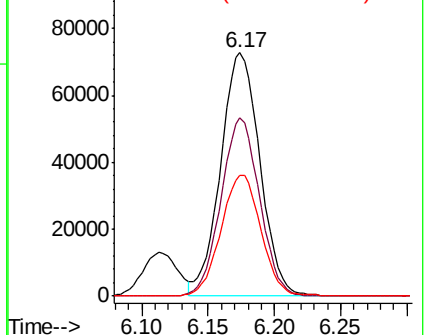


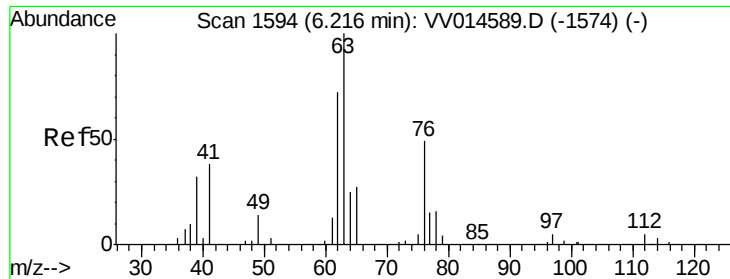
#35
 Methylcyclohexane
 Concen: 42.446 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion: 83 Resp: 149606
 Ion Ratio Lower Upper
 83 100
 55 71.8 57.4 86.2
 98 50.5 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

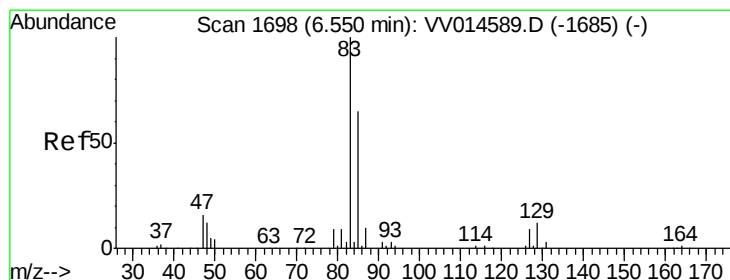
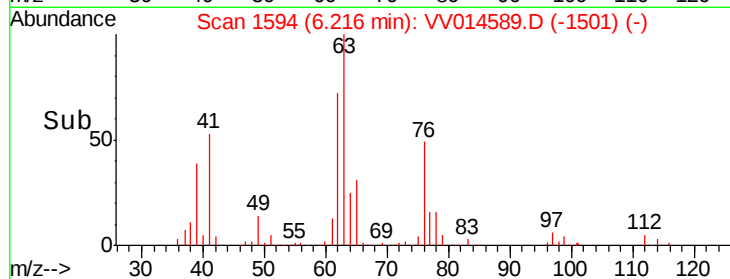
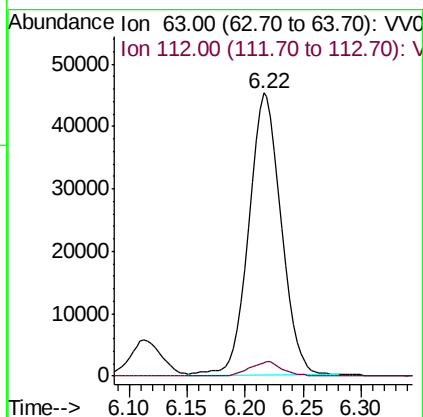
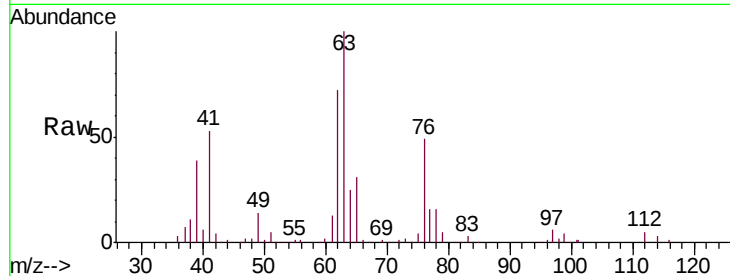




#37
 1,2-Dichloropropane
 Concen: 42.538 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

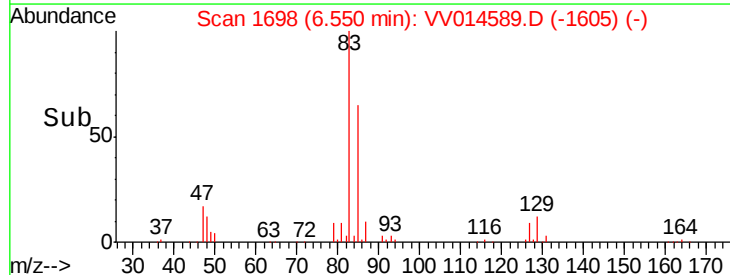
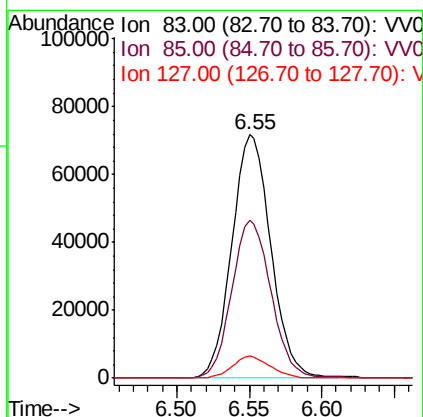
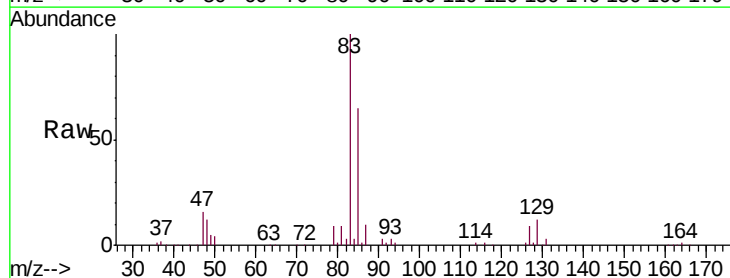
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

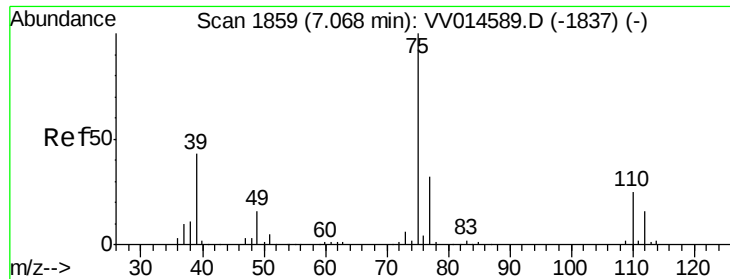
Tgt Ion: 63 Resp: 87905
 Ion Ratio Lower Upper
 63 100
 112 5.2 4.2 6.2



#38
 Bromodichloromethane
 Concen: 47.215 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion: 83 Resp: 133811
 Ion Ratio Lower Upper
 83 100
 85 65.0 45.5 84.5
 127 8.9 7.1 10.7

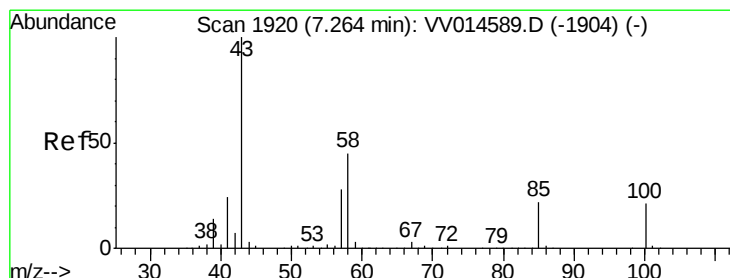
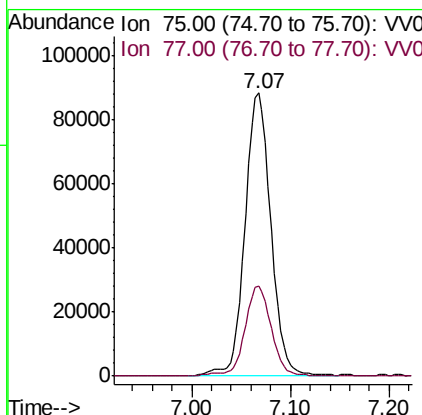
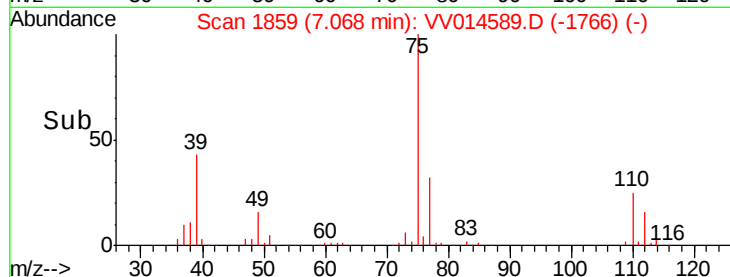
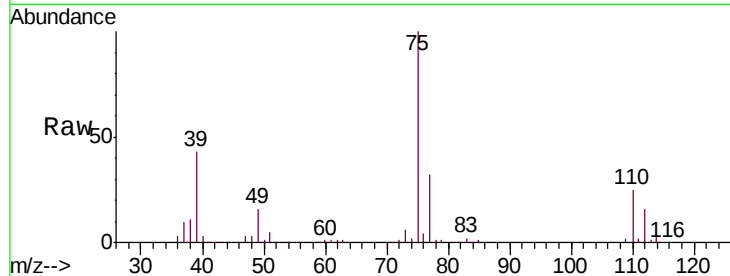




#39
 cis-1,3-Dichloropropene
 Concen: 45.880 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

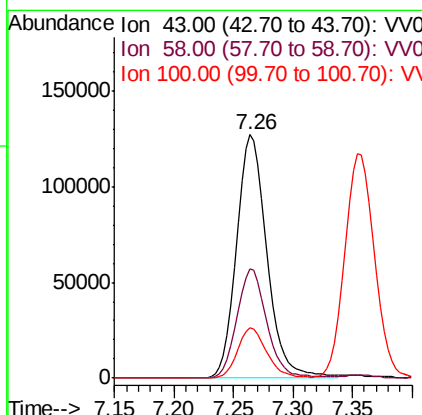
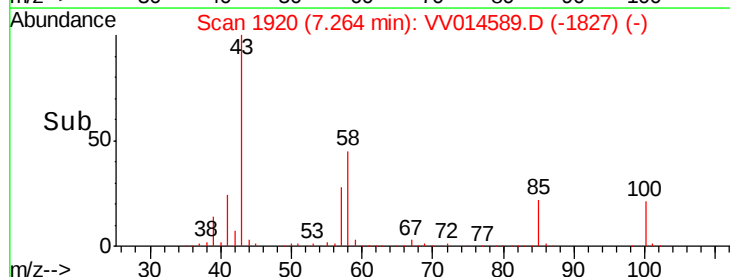
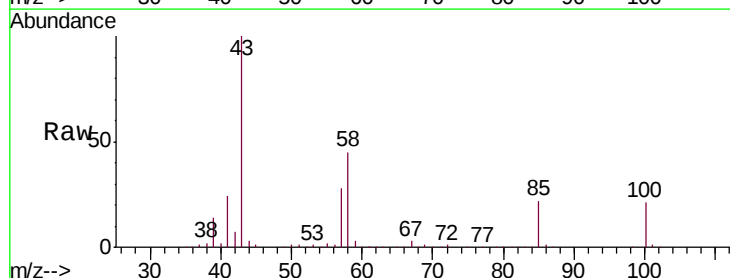
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

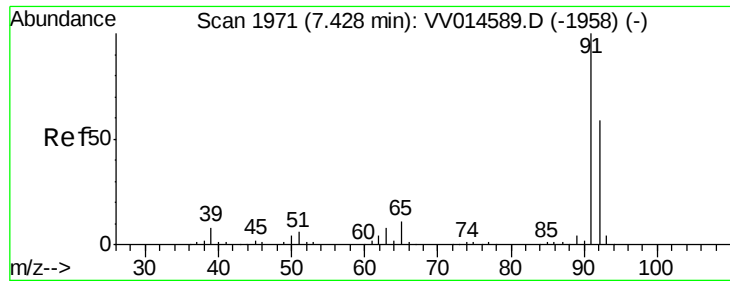
Tgt Ion: 75 Resp: 160475
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 84.617 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion: 43 Resp: 224032
 Ion Ratio Lower Upper
 43 100
 58 44.5 35.6 53.4
 100 20.0 16.0 24.0





#42

Toluene

Concen: 45.088 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

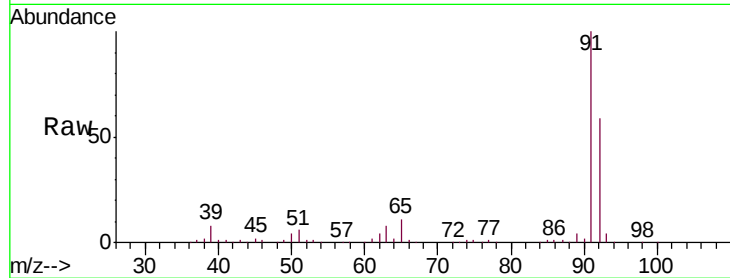
VSTD050204

Tgt Ion: 91 Resp: 397218

Ion Ratio Lower Upper

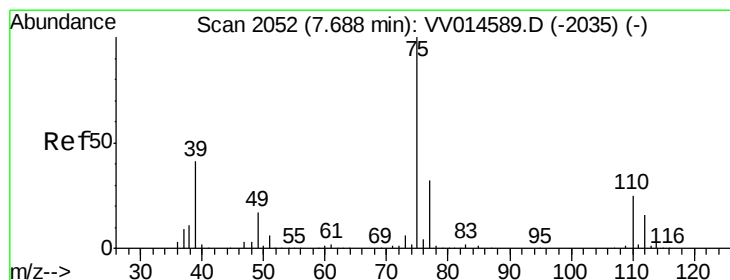
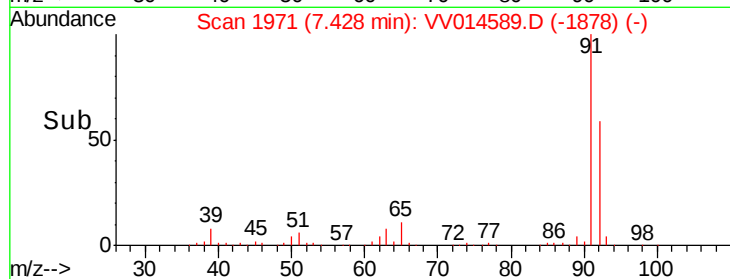
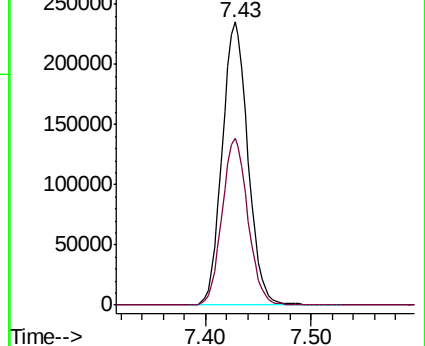
91 100

92 58.9 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 46.426 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014589.D

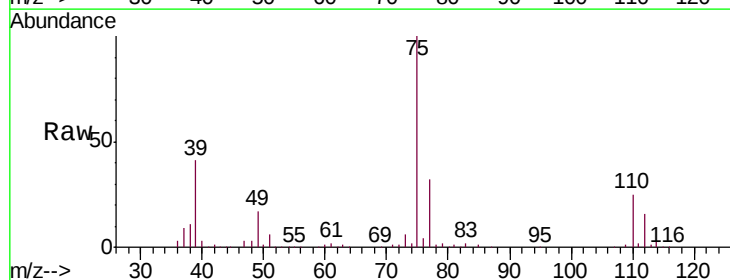
Acq: 17 Feb 2020 12:03

Tgt Ion: 75 Resp: 145642

Ion Ratio Lower Upper

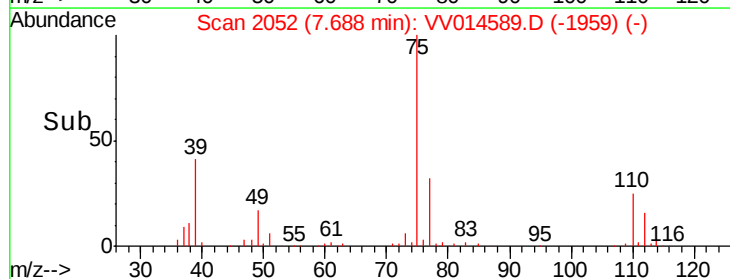
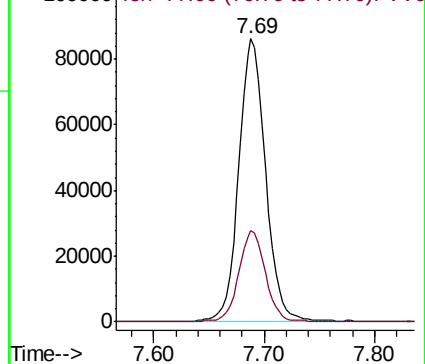
75 100

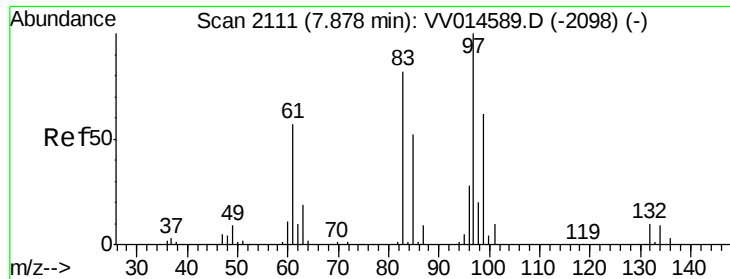
77 32.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

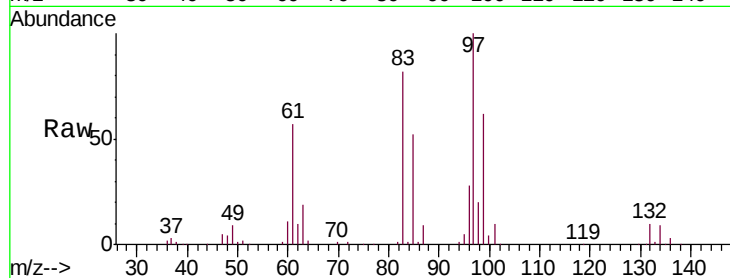




#45
 1,1,2-Trichloroethane
 Concen: 46.616 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

Tgt Ion:	97	Resp:	94267
Ion	Ratio	Lower	Upper
97	100		
99	62.0	43.4	80.6
83	82.3	57.6	107.0
85	51.6	36.1	67.1



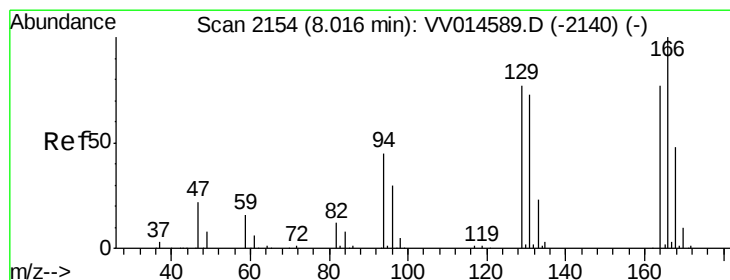
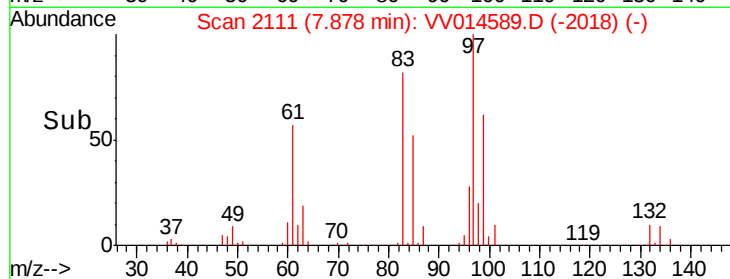
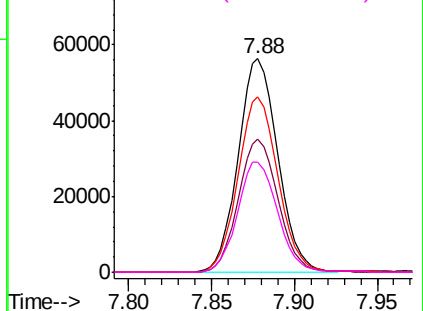
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

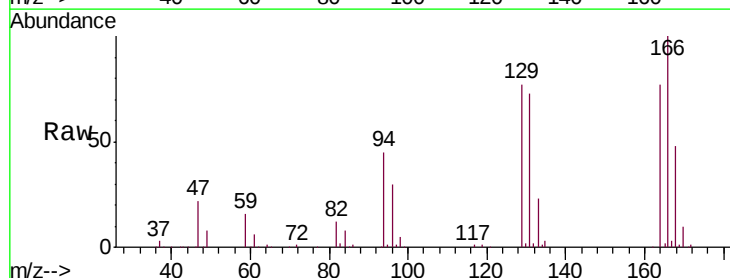
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 45.338 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion:	164	Resp:	75463
Ion	Ratio	Lower	Upper
164	100		
129	99.7	69.8	129.6
131	94.6	66.2	123.0
166	129.9	90.9	168.9



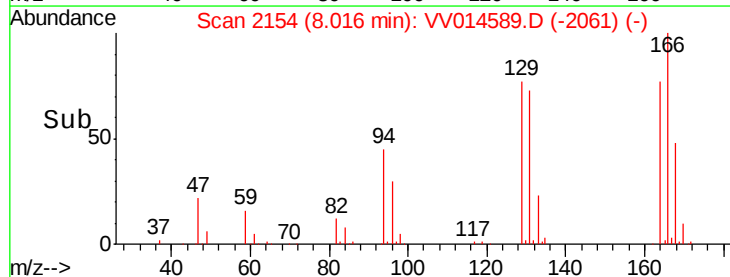
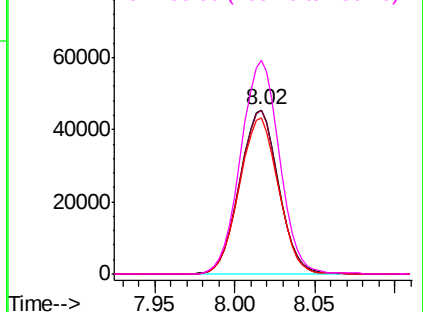
Abundance

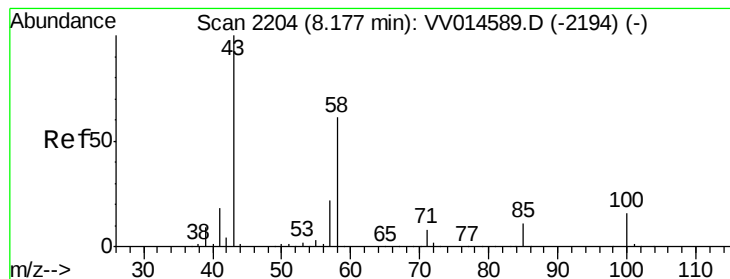
Ion 164.00 (163.70 to 164.70): V

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: 86.561 ug/L

RT: 8.18 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

VSTD050204

Tgt Ion: 43 Resp: 175477

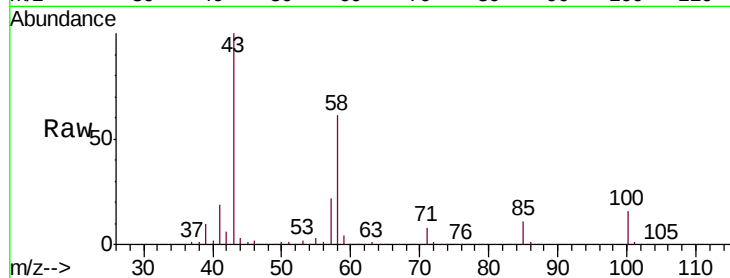
Ion Ratio Lower Upper

43 100

58 62.2 49.8 74.6

57 21.3 17.0 25.6

100 16.8 13.4 20.2

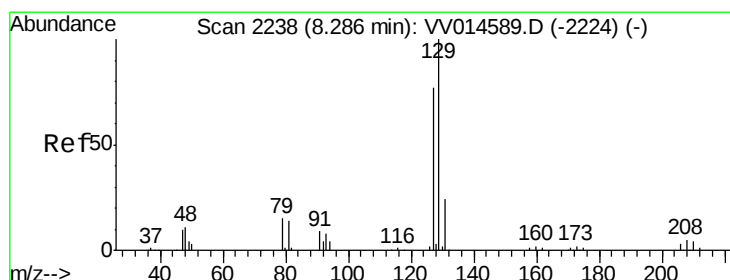
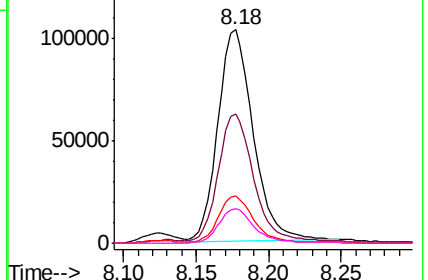
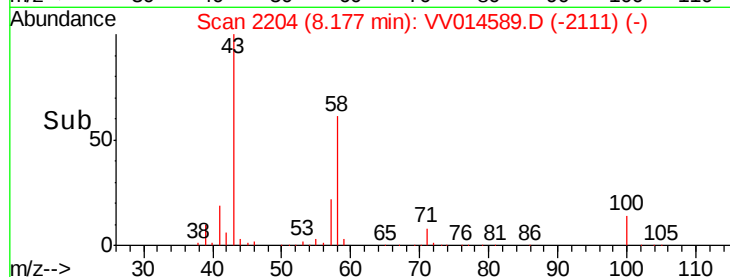


Abundance Ion 43.00 (42.70 to 43.70): VV0

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: 49.435 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV014589.D

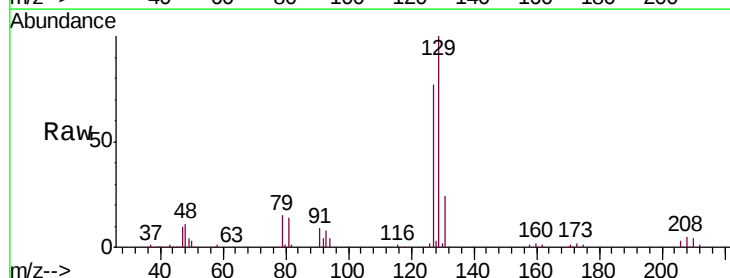
Acq: 17 Feb 2020 12:03

Tgt Ion: 129 Resp: 114304

Ion Ratio Lower Upper

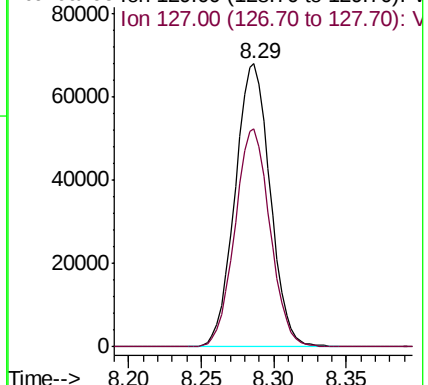
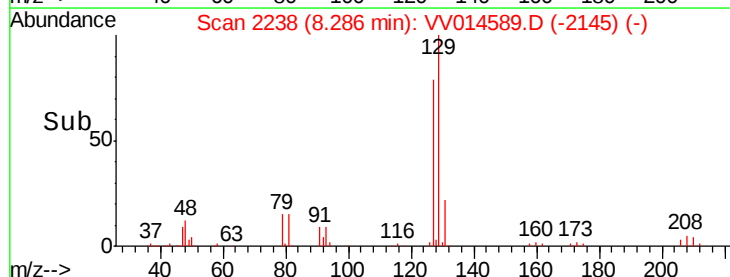
129 100

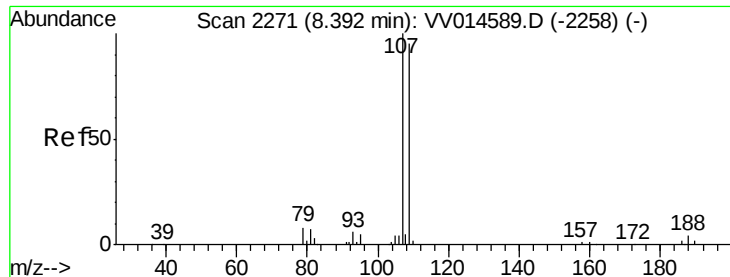
127 76.9 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

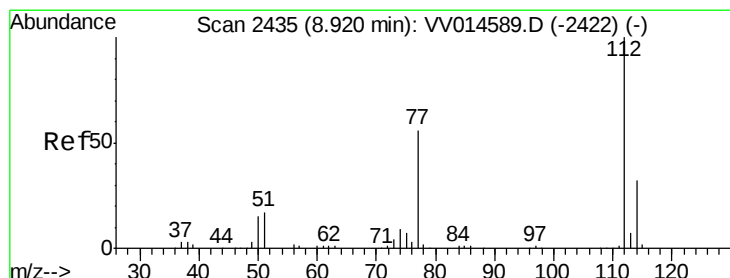
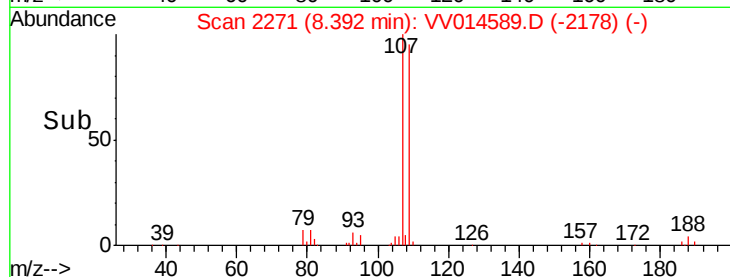
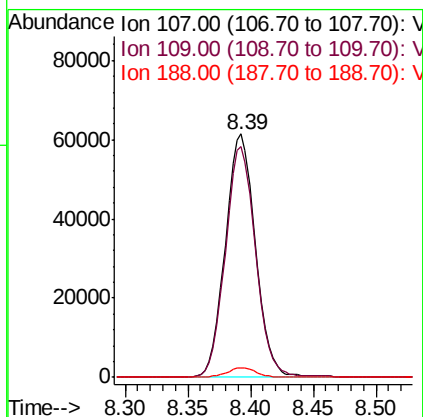
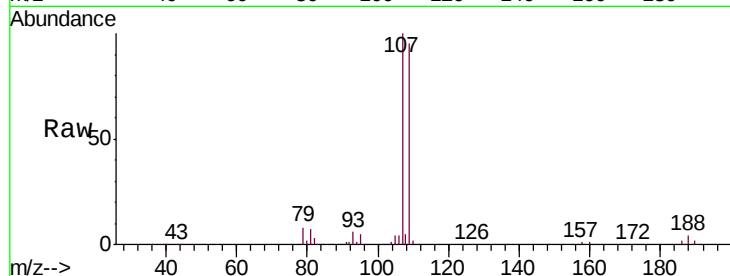




#50
1,2-Dibromoethane
Concen: 46.808 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

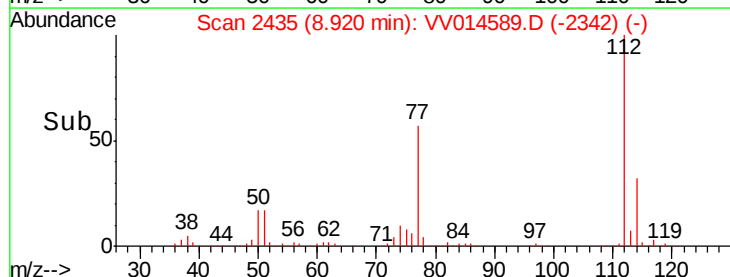
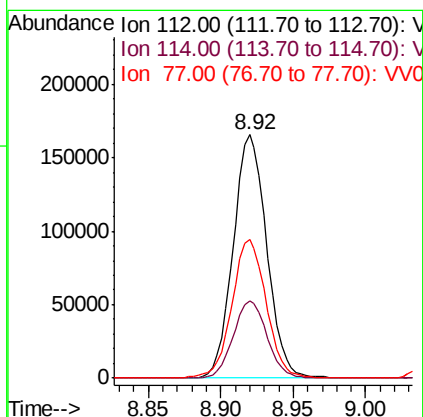
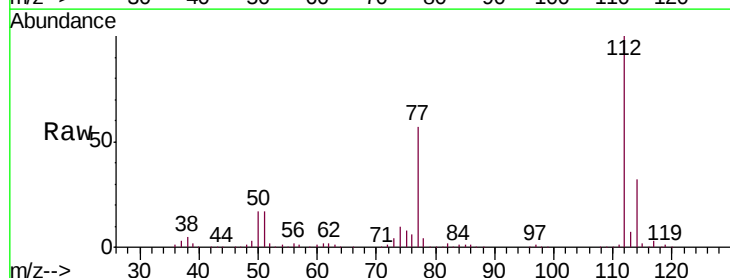
Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

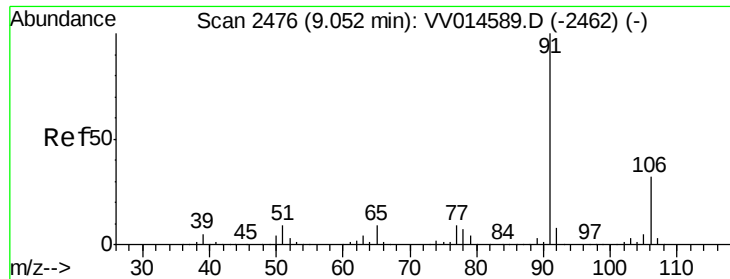
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	66.5	123.5
188	4.1	3.3	4.9



#51
Chlorobenzene
Concen: 45.918 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.4	41.6
77	56.9	45.5	68.3





#52

Ethylbenzene

Concen: 45.794 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :

MSVOA_V

ClientSampleId :

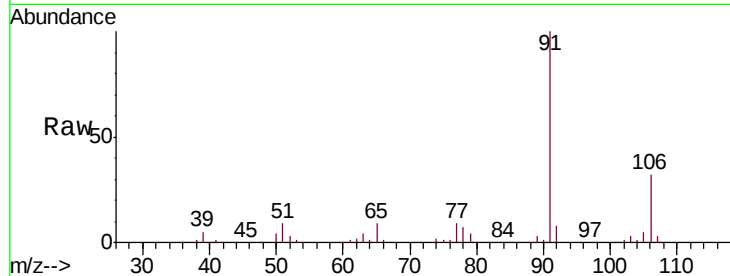
VSTD050204

Tgt Ion: 91 Resp: 453237

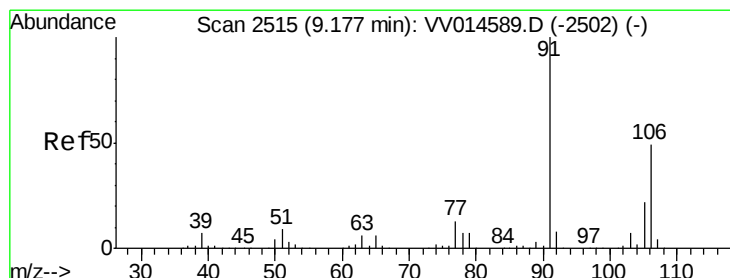
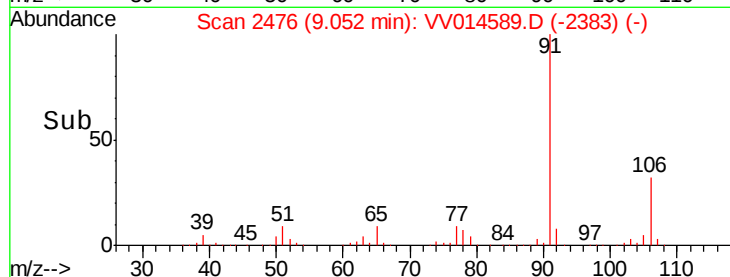
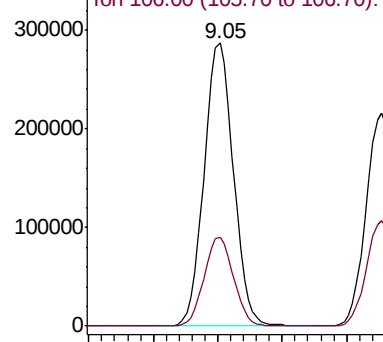
Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV014589.D (-2462) (-)



#53

m,p-Xylene

Concen: 45.381 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014589.D

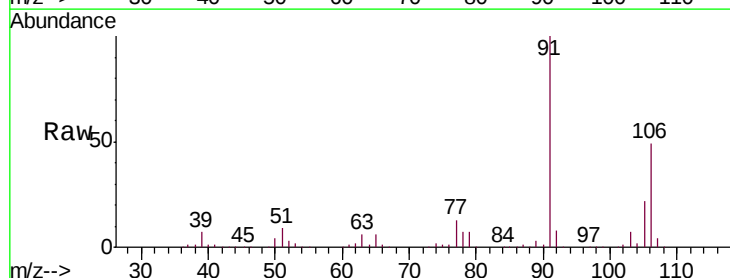
Acq: 17 Feb 2020 12:03

Tgt Ion: 106 Resp: 173218

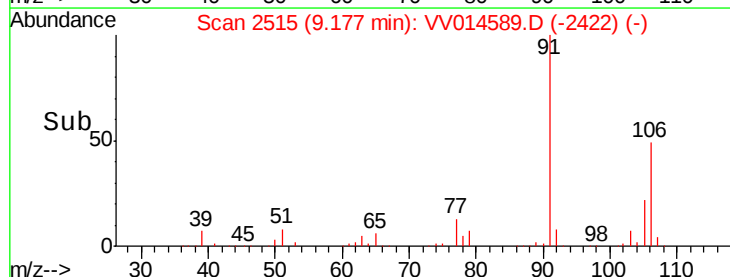
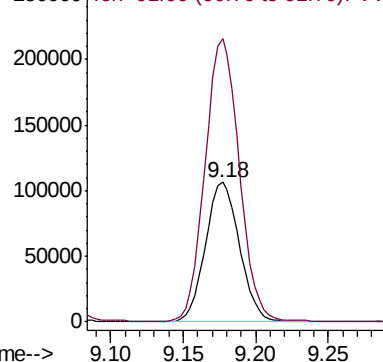
Ion Ratio Lower Upper

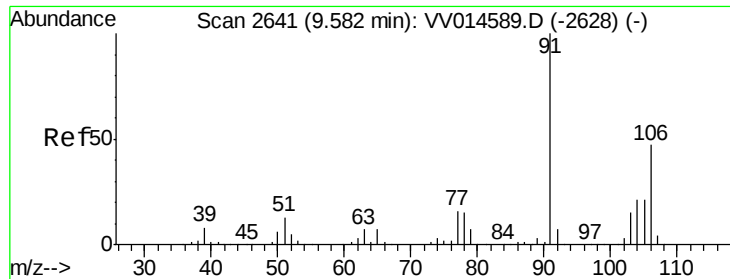
106 100

91 202.5 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): VV014589.D (-2502) (-)

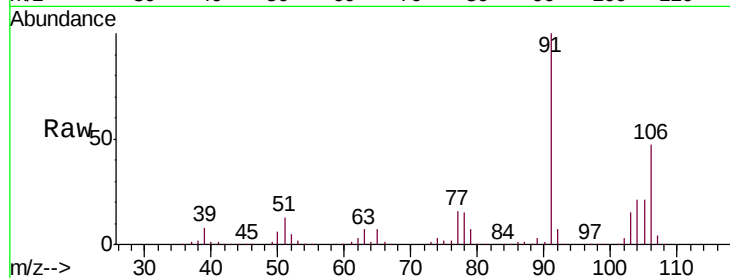




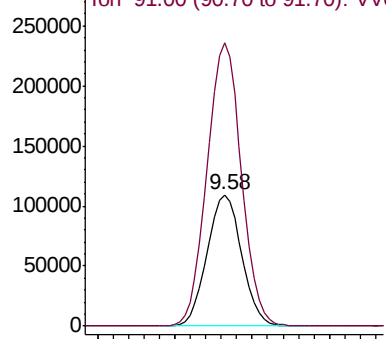
#54
o-Xylene
Concen: 46.485 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

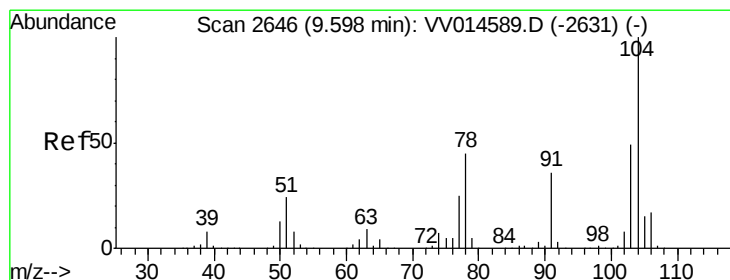
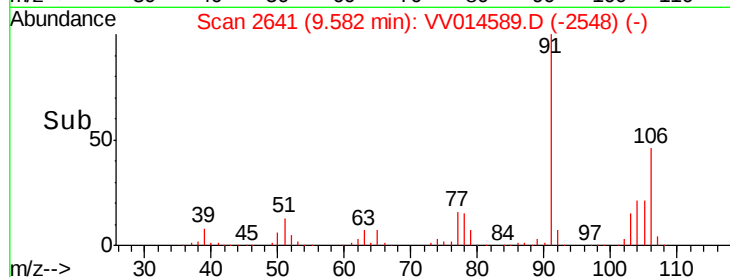
Tgt Ion:106 Resp: 170040
Ion Ratio Lower Upper
106 100
91 215.0 150.5 279.5



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

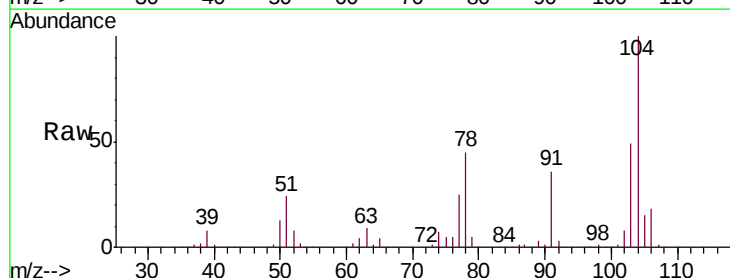


Time--> 9.50 9.55 9.60 9.65

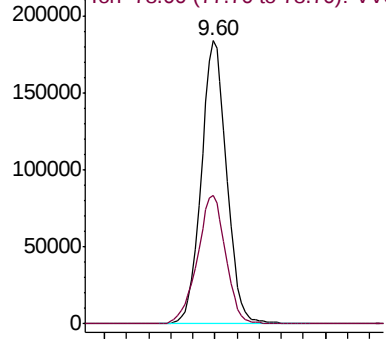


#55
Styrene
Concen: 46.993 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

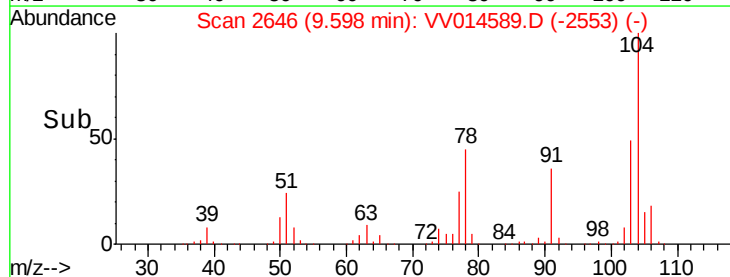
Tgt Ion:104 Resp: 293301
Ion Ratio Lower Upper
104 100
78 45.5 31.9 59.2

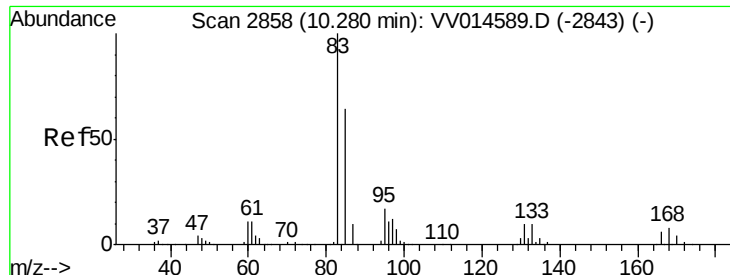


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0



Time--> 9.50 9.60 9.70

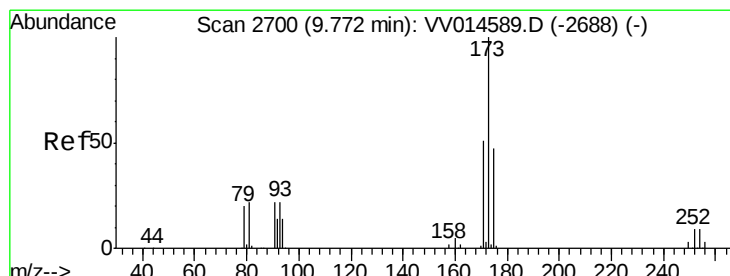
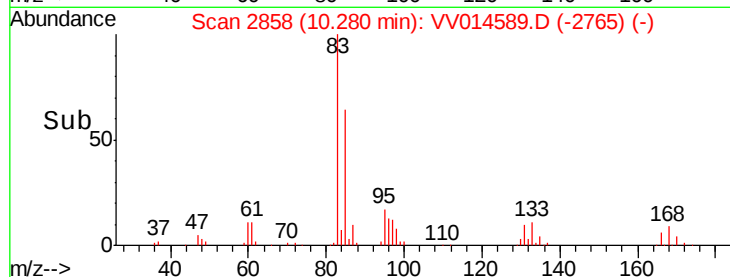
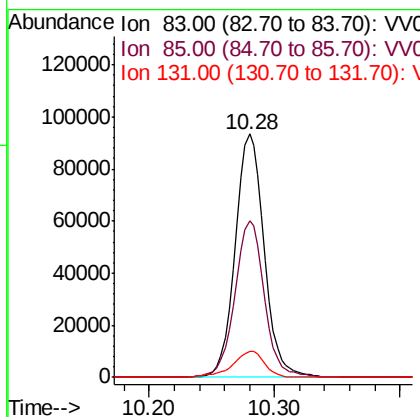
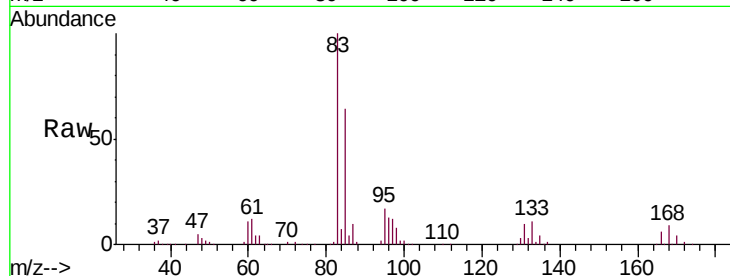




#57
 1,1,2,2-Tetrachloroethane
 Concen: 47.277 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

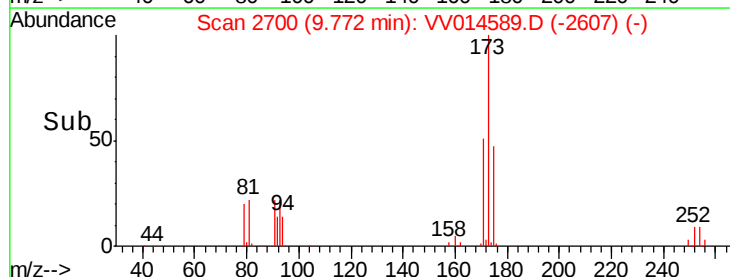
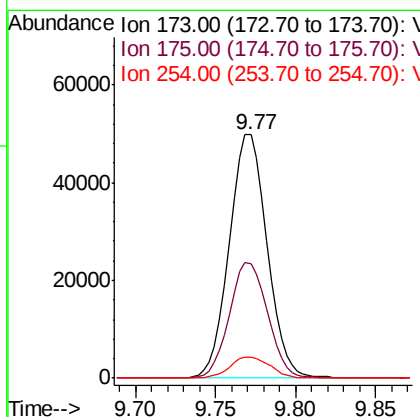
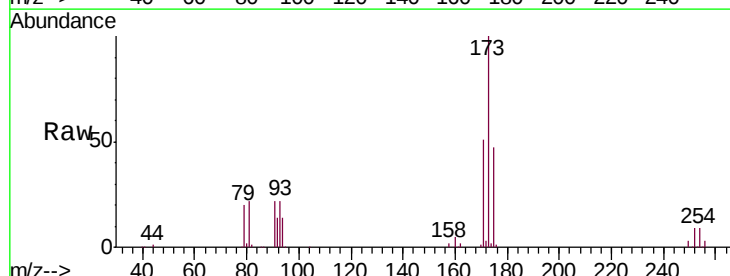
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

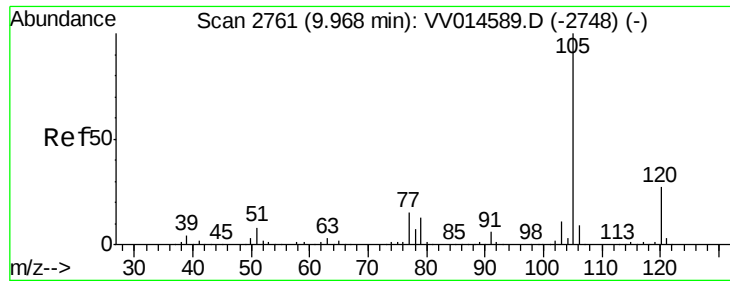
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	44.9	83.3
131	10.5	8.4	12.6



#59
 Bromoform
 Concen: 49.690 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.5	57.7
254	9.2	7.4	11.0





#60

Isopropylbenzene

Concen: 46.757 ug/L

RT: 9.97 min Scan# 2761

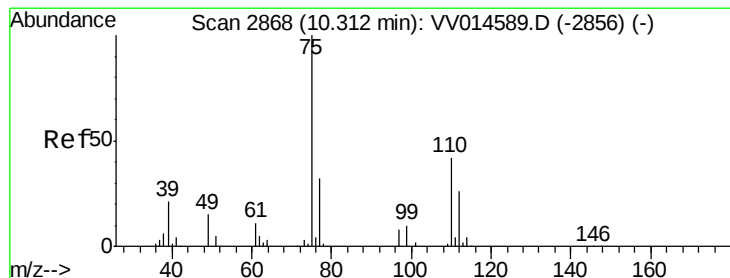
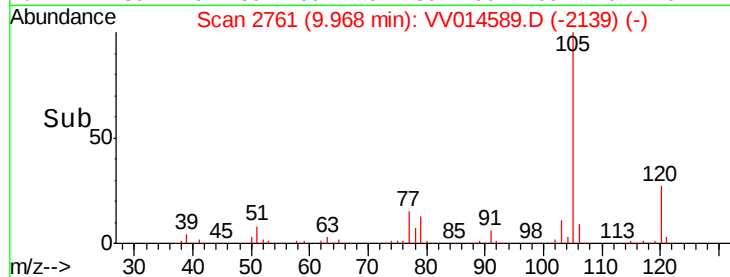
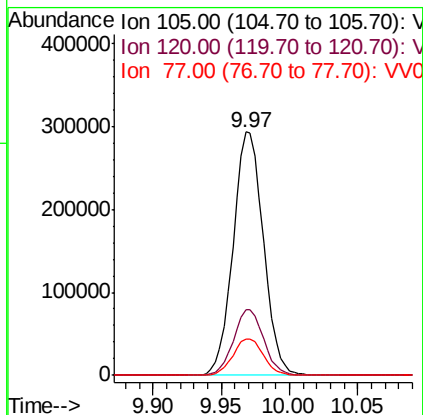
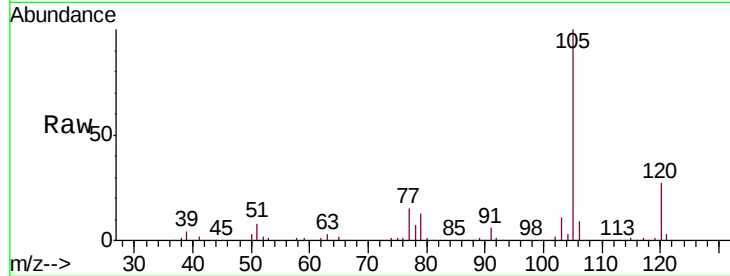
Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

Tgt Ion:	105	Resp:	452608
Ion	Ratio	Lower	Upper
105	100		
120	26.7	21.4	32.0
77	15.2	12.2	18.2



#61

1,2,3-Trichloropropane

Concen: 47.517 ug/L

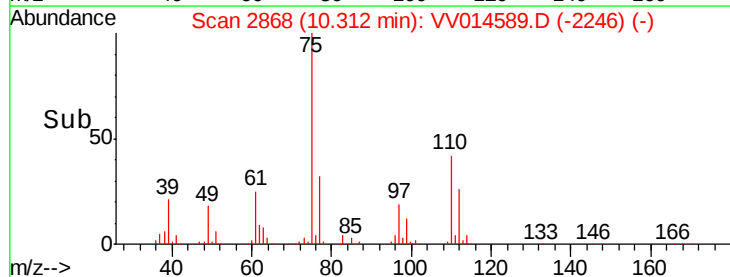
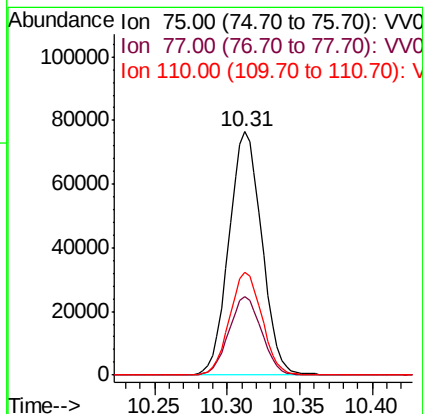
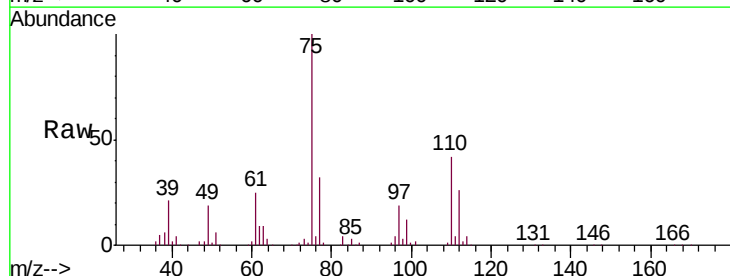
RT: 10.31 min Scan# 2868

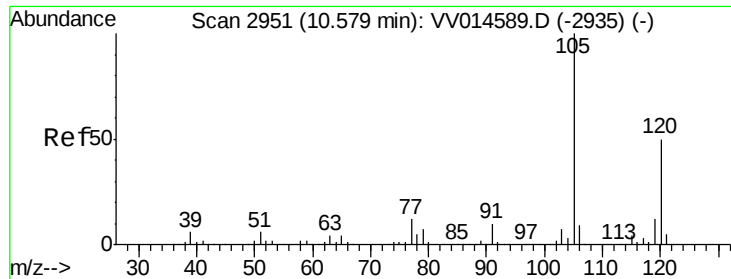
Delta R.T. 0.00 min

Lab File: VV014589.D

Acq: 17 Feb 2020 12:03

Tgt Ion:	75	Resp:	120407
Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.6	38.4
110	41.7	33.4	50.0

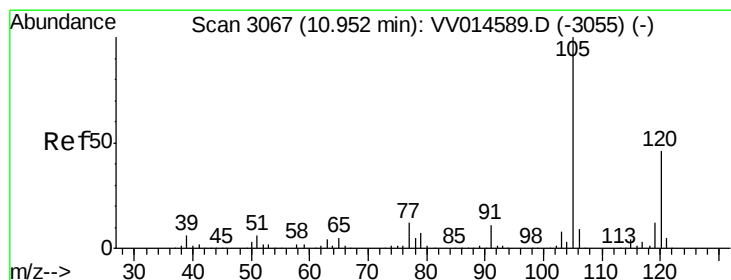
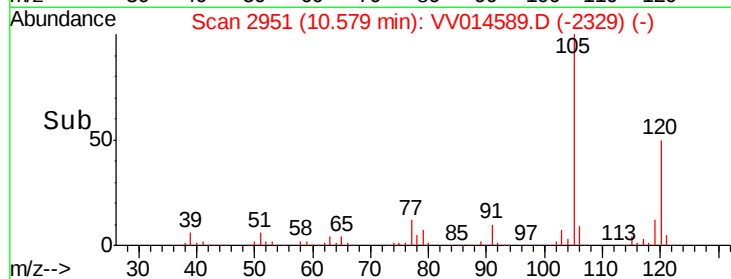
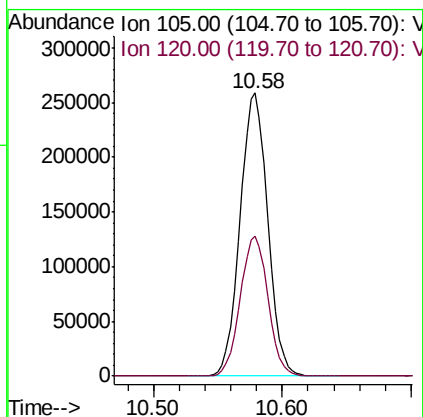
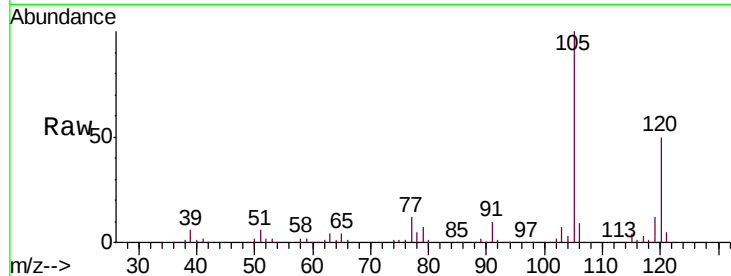




#62
 1,3,5-Trimethylbenzene
 Concen: 46.667 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

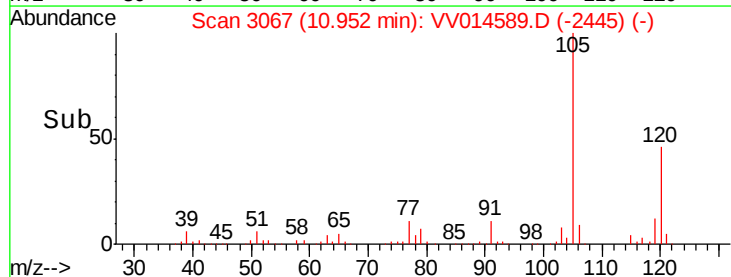
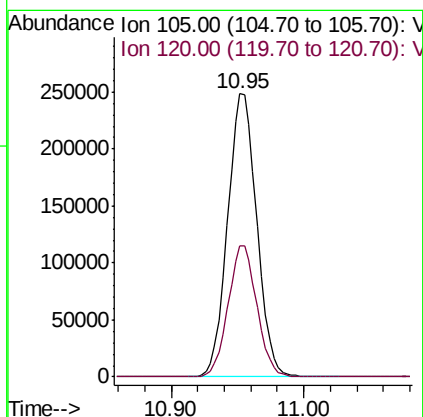
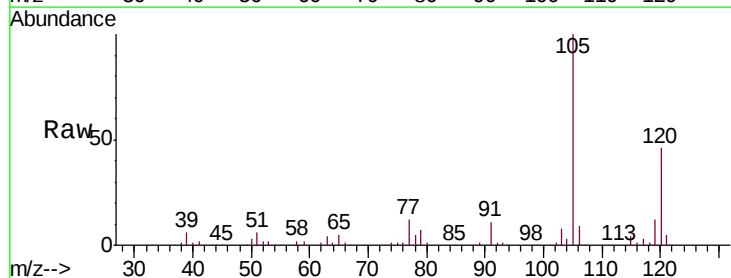
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

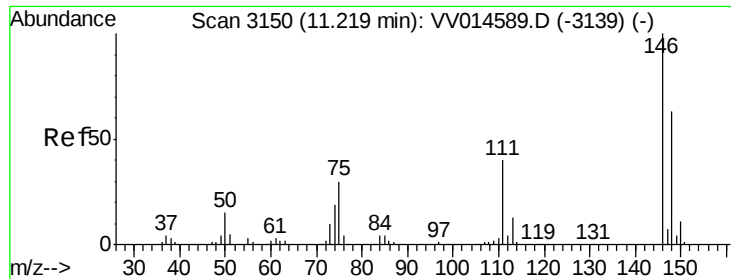
Tgt Ion:105 Resp: 385982
 Ion Ratio Lower Upper
 105 100
 120 49.7 39.8 59.6



#63
 1,2,4-Trimethylbenzene
 Concen: 46.507 ug/L
 RT: 10.95 min Scan# 3067
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion:105 Resp: 378731
 Ion Ratio Lower Upper
 105 100
 120 45.8 36.6 55.0

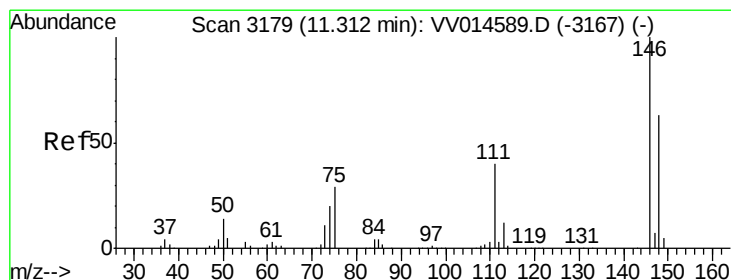
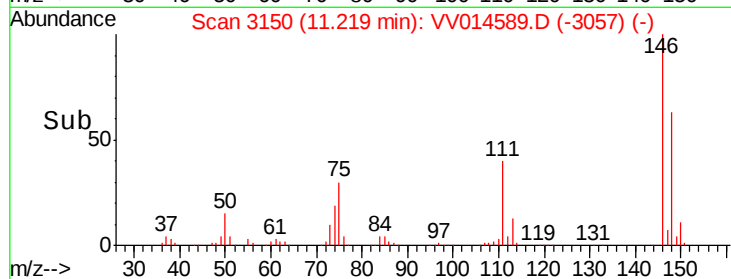
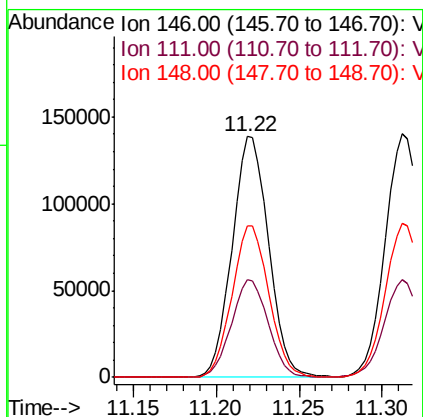
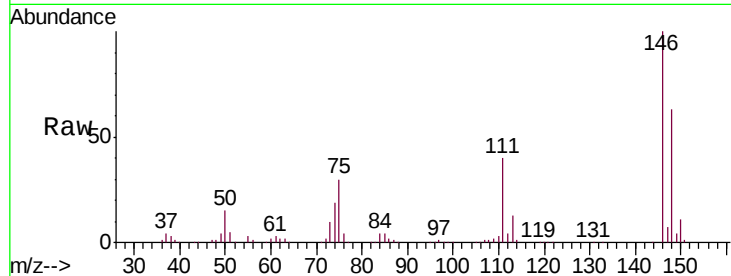




#64
 1,3-Dichlorobenzene
 Concen: 46.622 ug/L
 RT: 11.22 min Scan# 3150
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

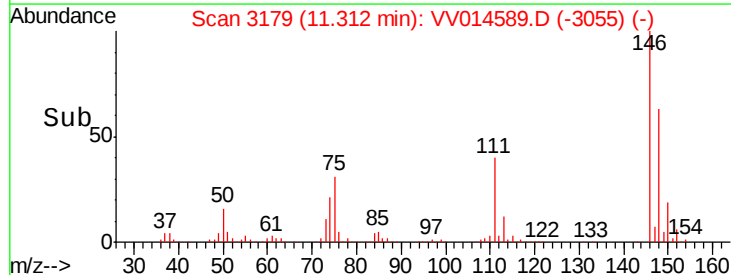
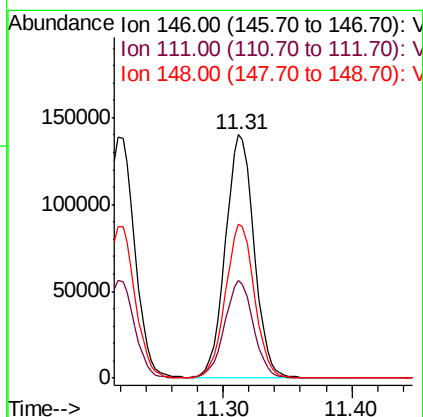
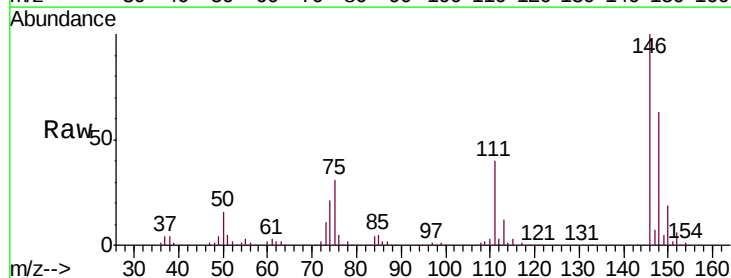
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

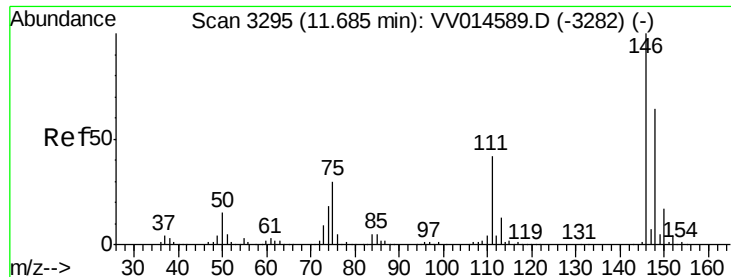
Tgt Ion:146 Resp: 213122
 Ion Ratio Lower Upper
 146 100
 111 40.4 28.3 52.5
 148 62.9 44.0 81.8



#65
 1,4-Dichlorobenzene
 Concen: 45.877 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion:146 Resp: 215526
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.9 51.9
 148 63.2 44.2 82.2

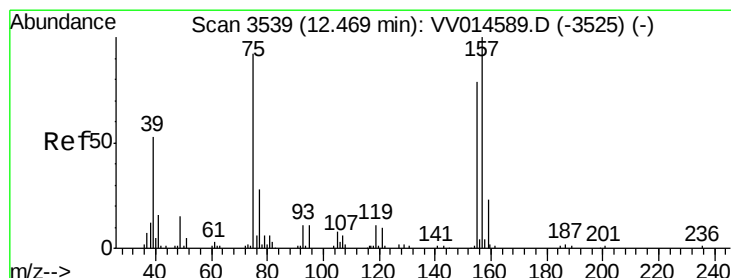
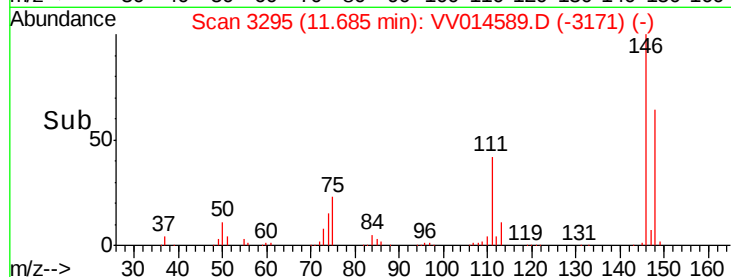
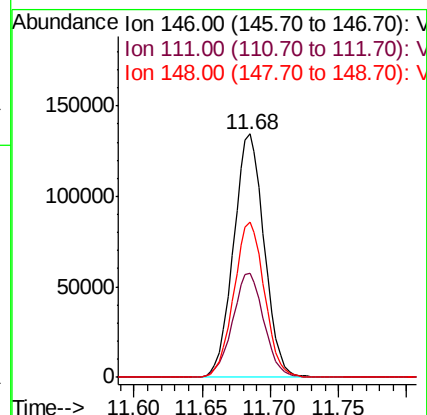
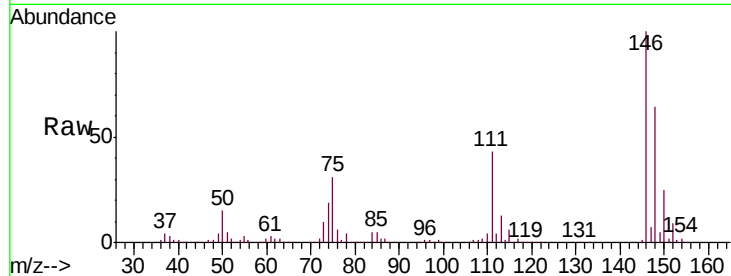




#67
 1,2-Dichlorobenzene
 Concen: 47.084 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

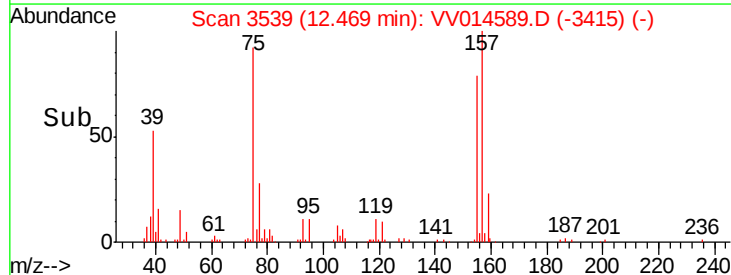
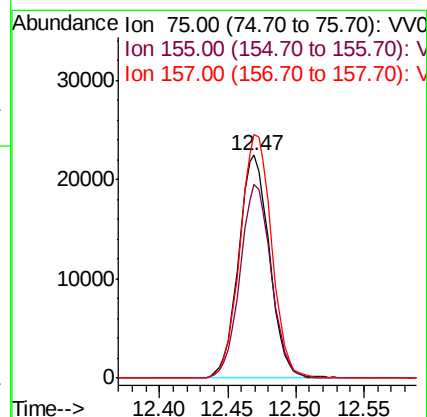
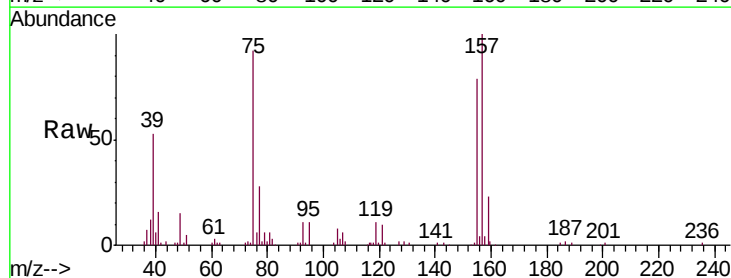
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

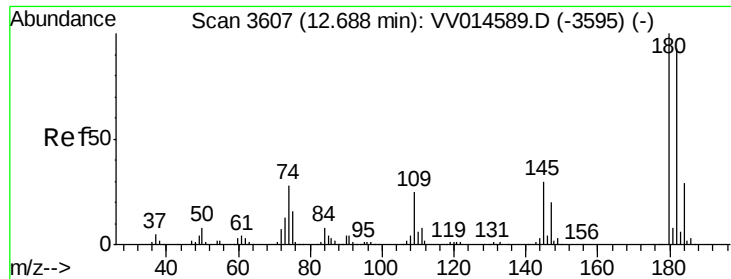
Tgt Ion: 146 Resp: 209611
 Ion Ratio Lower Upper
 146 100
 111 42.6 34.1 51.1
 148 63.9 51.1 76.7



#68
 1,2-Dibromo-3-chloropropane
 Concen: 49.447 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion: 75 Resp: 35366
 Ion Ratio Lower Upper
 75 100
 155 86.7 69.4 104.0
 157 109.2 87.4 131.0

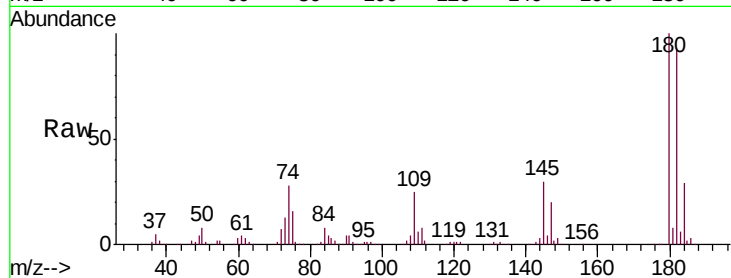




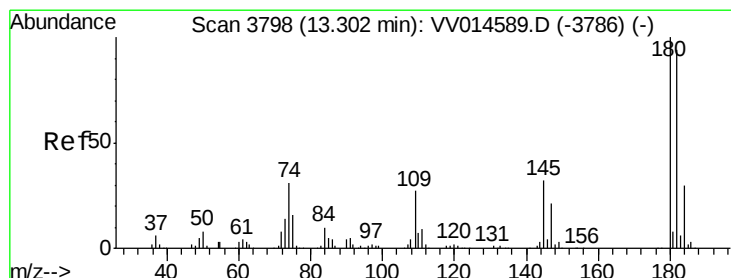
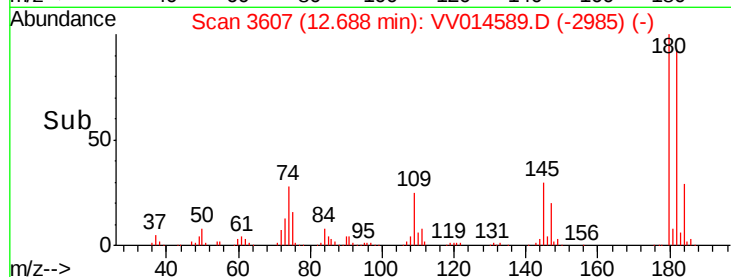
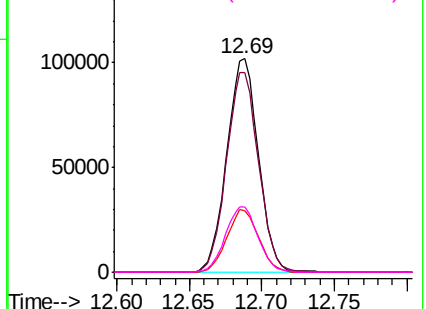
#69
 1,3,5-Trichlorobenzene
 Concen: 47.654 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050204

Tgt Ion:180 Resp: 154055
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.6 113.4
 184 29.3 23.4 35.2
 145 31.5 25.2 37.8

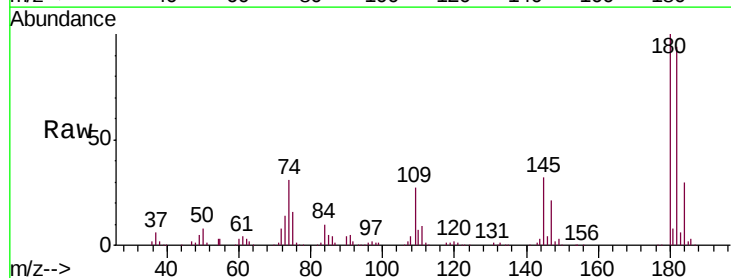


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

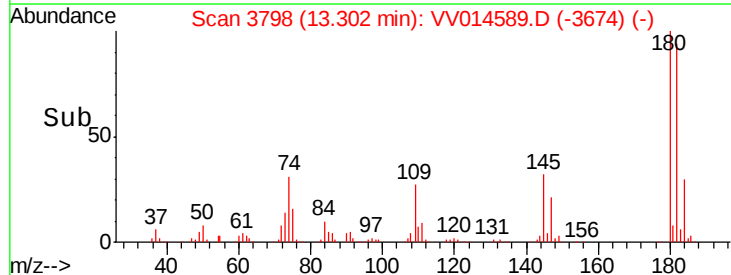
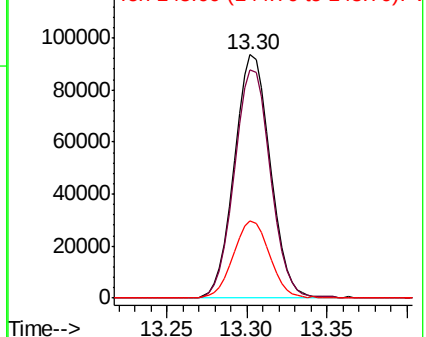


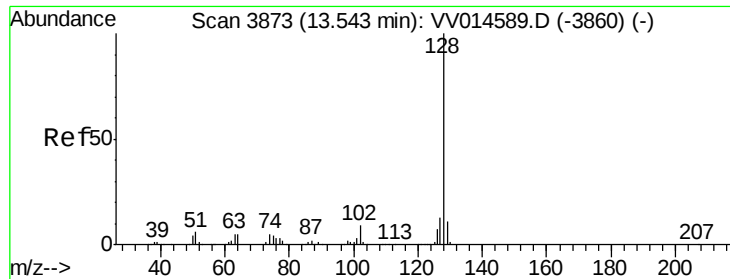
#70
 1,2,4-trichlorobenzene
 Concen: 48.290 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. 0.00 min
 Lab File: VV014589.D
 Acq: 17 Feb 2020 12:03

Tgt Ion:180 Resp: 142894
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.8 113.6
 145 31.9 25.5 38.3



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

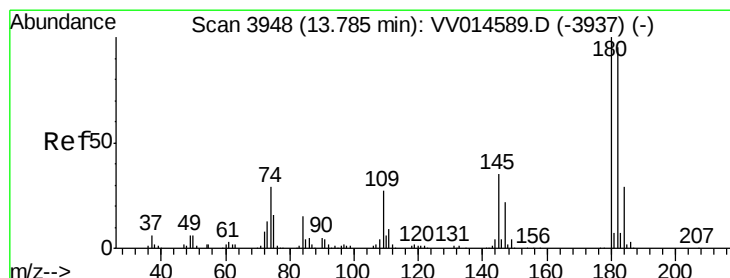
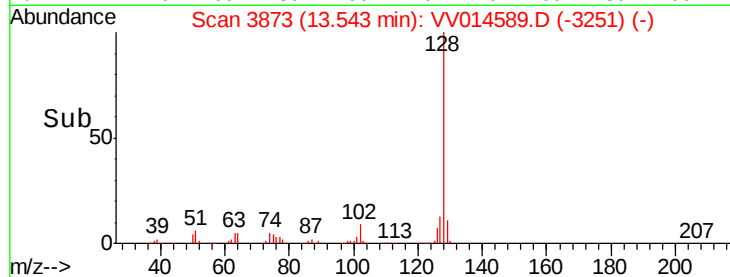
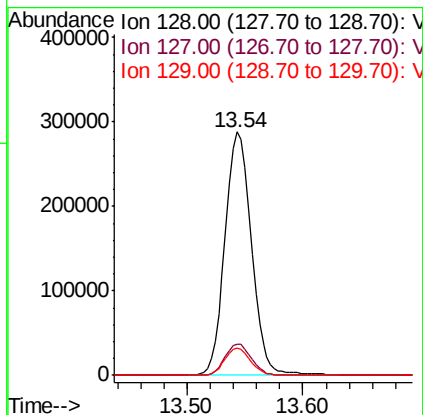
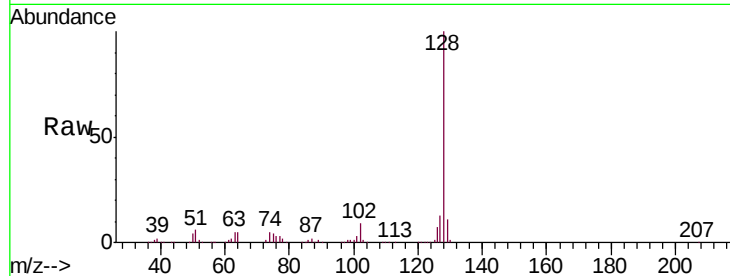




#71
Naphthalene
Concen: 47.044 ug/L
RT: 13.54 min Scan# 3873
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Instrument :
MSVOA_V
ClientSampleId :
VSTD050204

Tgt Ion:128 Resp: 455887
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.8 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 48.173 ug/L
RT: 13.78 min Scan# 3948
Delta R.T. 0.00 min
Lab File: VV014589.D
Acq: 17 Feb 2020 12:03

Tgt Ion:180 Resp: 138896
Ion Ratio Lower Upper
180 100
182 95.0 76.0 114.0
145 34.6 27.7 41.5

