

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120420\
 Data File : VV019474.D
 Acq On : 04 Dec 2020 12:45
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

Quant Time: Dec 05 02:32:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM112320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 04 08:04:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	329906	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	328095	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	179371	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	145057	44.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.04%
7) Chloroethane-d5	1.57	69	114896	42.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.68%
11) 1,1-Dichloroethene-d2	2.12	63	288026	49.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.22%
21) 2-Butanone-d5	3.89	46	177131	88.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.20%
24) Chloroform-d	4.37	84	279935	52.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.10%
26) 1,2-Dichloroethane-d4	5.05	65	188118	53.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.90%
32) Benzene-d6	5.07	84	538828	55.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	111.10%
36) 1,2-Dichloropropane-d6	6.09	67	178593	55.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	110.66%
41) Toluene-d8	7.33	98	481018	55.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.70%
43) trans-1,3-Dichloropropene-	7.64	79	86241	55.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	110.64%
47) 2-Hexanone-d5	8.10	63	111750	87.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.88%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	216706	51.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.74%
64) 1,2-Dichlorobenzene-d4	11.64	152	172514	49.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.06%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	100113	37.544	ug/L	100
3) Chloromethane	1.25	50	131406	36.643	ug/L	99
5) Vinyl chloride	1.32	62	137900	40.246	ug/L	100
6) Bromomethane	1.52	94	87517	39.178	ug/L	98
8) Chloroethane	1.59	64	88561	40.612	ug/L	98
9) Trichlorofluoromethane	1.76	101	188862	43.900	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	110450	47.742	ug/L	95
12) 1,1-Dichloroethene	2.13	96	103020	42.772	ug/L	83
13) Acetone	2.17	43	177878	115.841	ug/L	93
14) Carbon disulfide	2.31	76	329475	47.128	ug/L	100
15) Methyl Acetate	2.44	43	157172	50.553	ug/L	96
16) Methylene chloride	2.52	84	132020	47.321	ug/L	92
17) trans-1,2-Dichloroethene	2.78	96	118256	49.641	ug/L	91
18) Methyl tert-butyl Ether	2.78	73	395848	52.256	ug/L	96
19) 1,1-Dichloroethane	3.21	63	256293	52.449	ug/L	98
20) cis-1,2-Dichloroethene	3.93	96	128716	49.168	ug/L	90
22) 2-Butanone	3.97	43	237459	116.604	ug/L	97

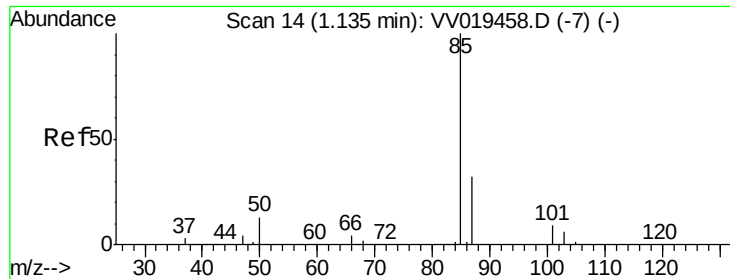
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120420\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	65280	47.084	ug/L	89
25) Chloroform	4.40	83	249236	50.457	ug/L	99
27) 1,2-Dichloroethane	5.15	62	209275	53.996	ug/L	98
29) Cyclohexane	4.70	56	210153	61.189	ug/L	95
30) 1,1,1-Trichloroethane	4.63	97	209096	52.760	ug/L	96
31) Carbon tetrachloride	4.85	117	175748	51.656	ug/L	99
33) Benzene	5.12	78	532689	54.252	ug/L	100
34) Trichloroethene	5.93	95	140304	51.241	ug/L	96
35) Methylcyclohexane	6.15	83	194772	60.450	ug/L	97
37) 1,2-Dichloropropane	6.19	63	151366	55.891	ug/L	98
38) Bromodichloromethane	6.53	83	187624	52.254	ug/L	99
39) cis-1,3-Dichloropropene	7.04	75	214535	53.628	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	432112	113.153	ug/L	97
42) Toluene	7.41	91	551055	54.102	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	222593	55.862	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	128970	50.856	ug/L	99
46) Tetrachloroethene	7.99	164	94349	49.614	ug/L	94
48) 2-Hexanone	8.15	43	344649	113.949	ug/L	96
49) Dibromochloromethane	8.26	129	136071	48.548	ug/L	100
50) 1,2-Dibromoethane	8.37	107	132009	49.049	ug/L	100
51) Chlorobenzene	8.90	112	334441	49.772	ug/L	98
52) Ethylbenzene	9.03	91	599236	54.822	ug/L	98
53) m,p-Xylene	9.16	106	215756	53.348	ug/L	98
54) o-xylene	9.56	106	209177	53.119	ug/L	97
55) Styrene	9.58	104	377758	53.588	ug/L	99
56) Isopropylbenzene	9.95	105	564505	54.716	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	198974	51.331	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	175401	49.305	ug/L	99
61) Bromoform	9.75	173	93556	45.623	ug/L	98
62) 1,3-Dichlorobenzene	11.20	146	262754	50.353	ug/L	98
63) 1,4-Dichlorobenzene	11.29	146	273158	49.804	ug/L	98
65) 1,2-Dichlorobenzene	11.66	146	263520	49.188	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	46267	49.908	ug/L	91
67) 1,3,5-Trichlorobenzene	12.67	180	199423	52.500	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	174399	51.857	ug/L	98
69) Naphthalene	13.52	128	467691	54.689	ug/L	99
70) 1,2,3-Trichlorobenzene	13.76	180	181875	51.739	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 37.544 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampled :

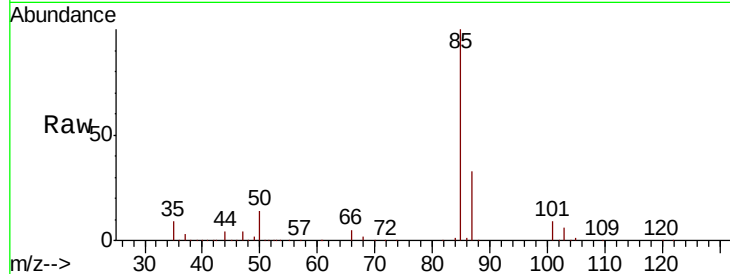
BFB61

Tot Ion: 85 Resp: 100113

Ion Ratio Lower Upper

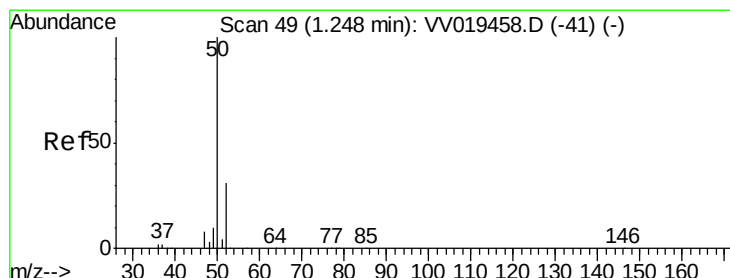
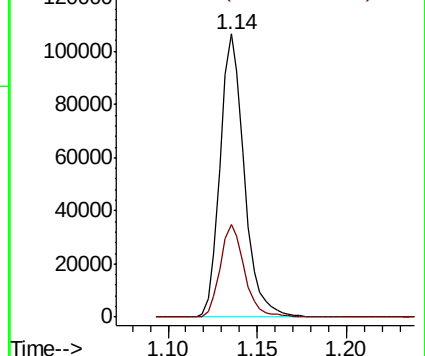
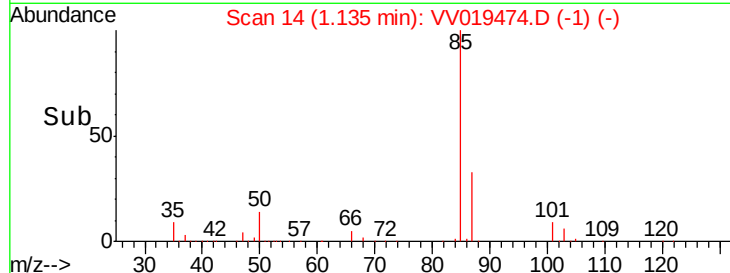
85 100

87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV019474.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV019474.D (-1) (-)



#3

Chloromethane

Concen: 36.643 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019474.D

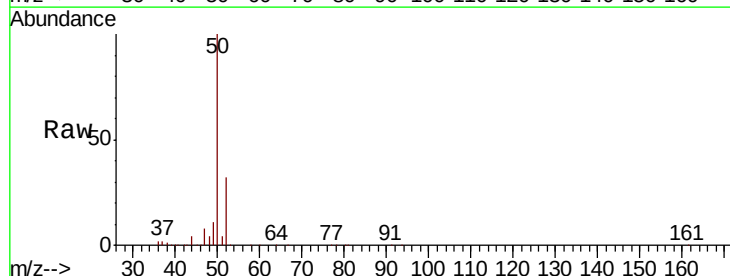
Acq: 04 Dec 2020 12:45

Tgt Ion: 50 Resp: 131406

Ion Ratio Lower Upper

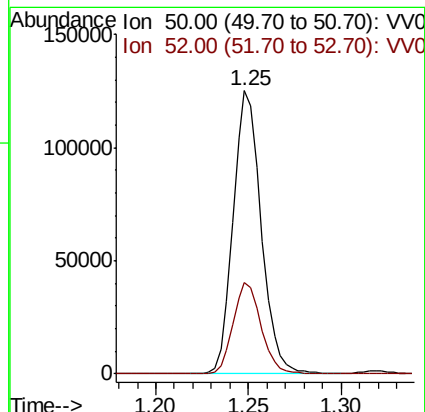
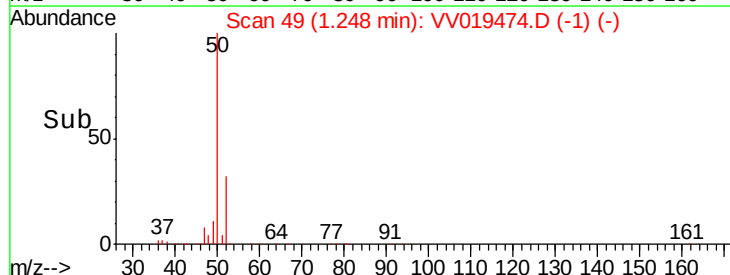
50 100

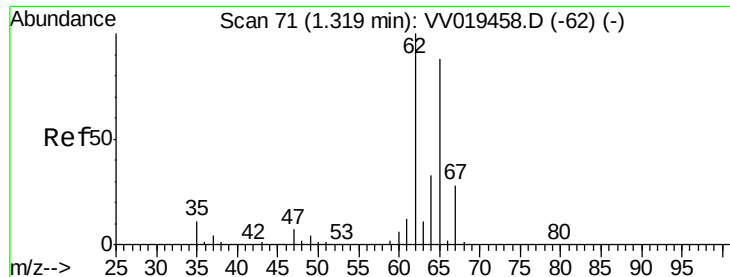
52 32.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV019474.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV019474.D (-1) (-)





#5

Vinyl chloride

Concen: 40.246 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

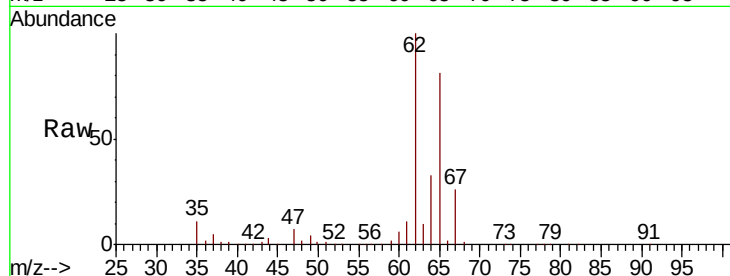
BFB61

Tot Ion: 62 Resp: 137900

Ion Ratio Lower Upper

62 100

64 32.8 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

150000

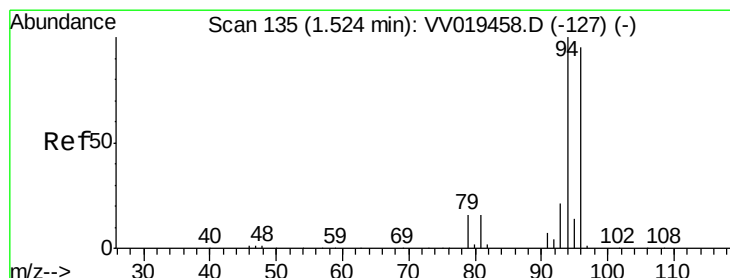
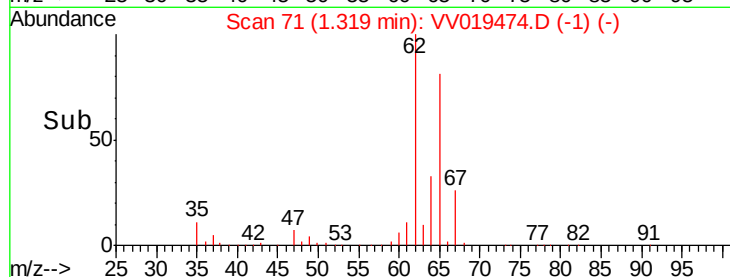
100000

50000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 39.178 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV019474.D

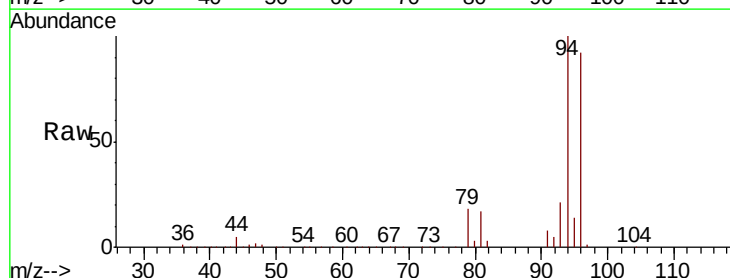
Acq: 04 Dec 2020 12:45

Tgt Ion: 94 Resp: 87517

Ion Ratio Lower Upper

94 100

96 92.1 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.52

80000

60000

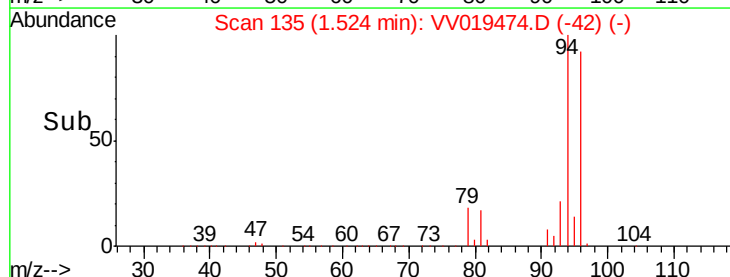
40000

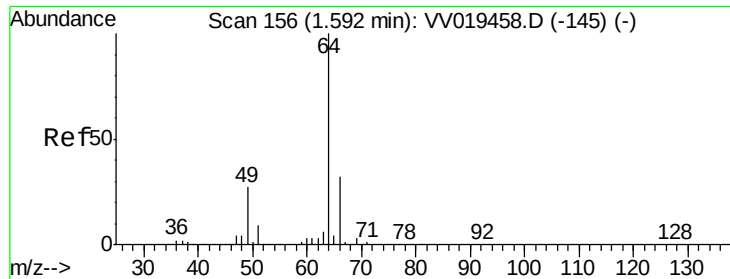
20000

0

Time-->

1.50 1.55





#8

Chloroethane

Concen: 40.612 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

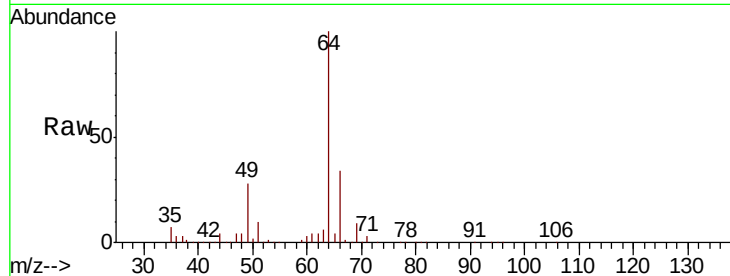
BFB61

Tot Ion: 64 Resp: 88561

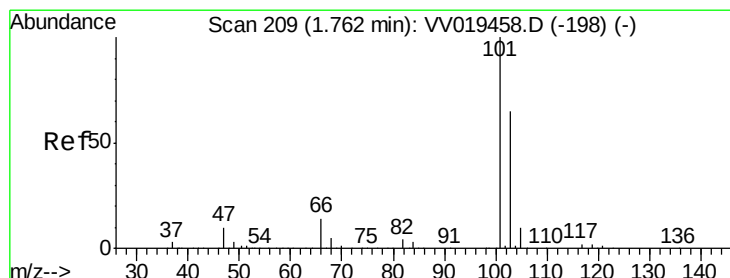
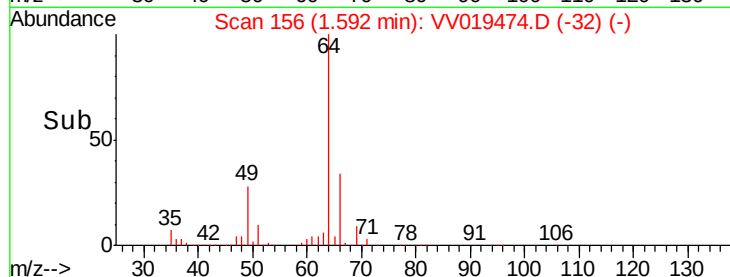
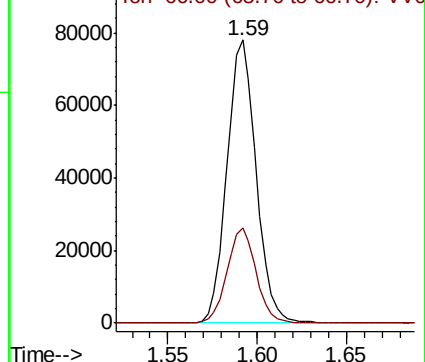
Ion Ratio Lower Upper

64 100

66 33.5 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV019474.D (-156) (-)



#9

Trichlorofluoromethane

Concen: 43.900 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV019474.D

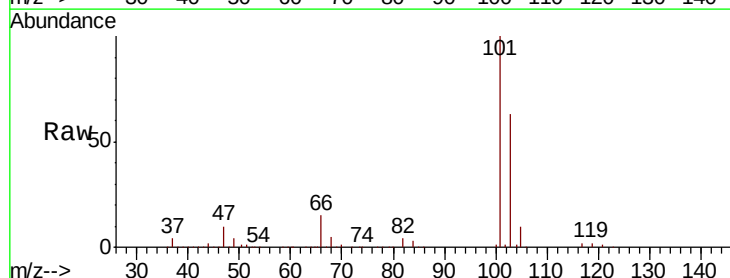
Acq: 04 Dec 2020 12:45

Tgt Ion: 101 Resp: 188862

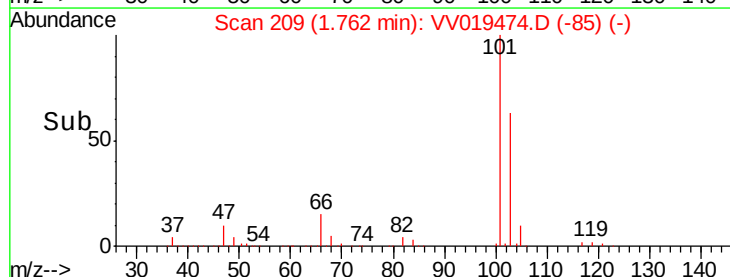
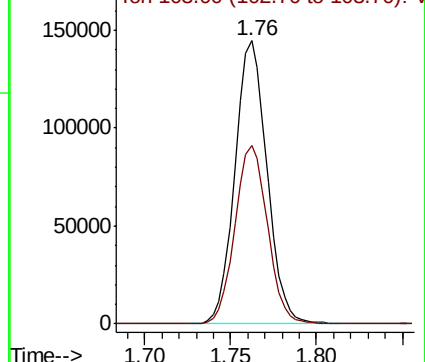
Ion Ratio Lower Upper

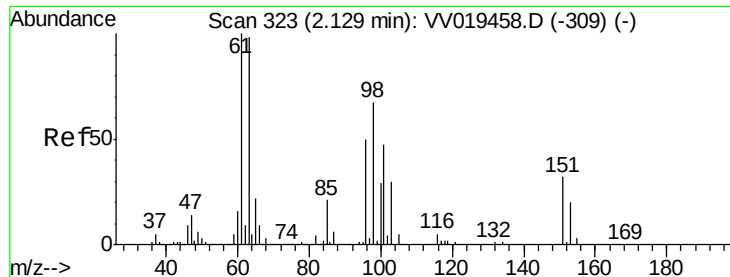
101 100

103 64.0 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019474.D (-209) (-)





#10

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

Concen: 47.742 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampled :

BFB61

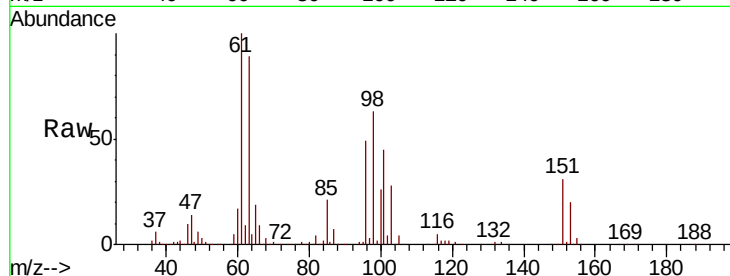
Tot Ion:101 Resp: 110450

Ion Ratio Lower Upper

101 100

85 46.1 35.5 53.3

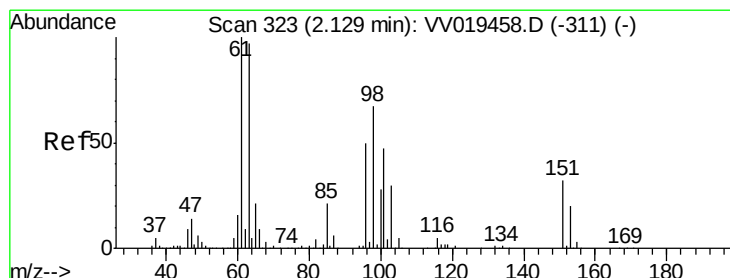
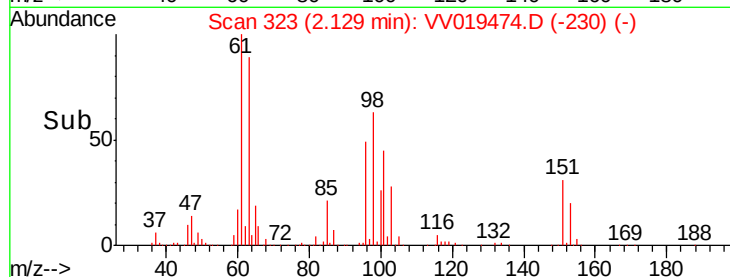
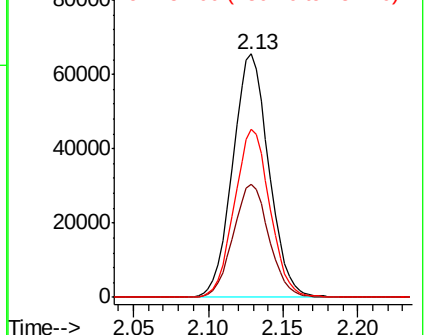
151 67.9 58.9 88.3



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: 42.772 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

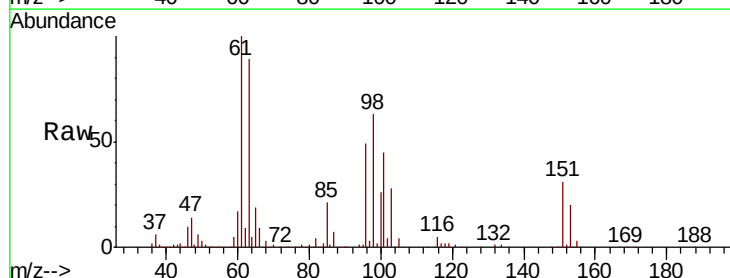
Tgt Ion: 96 Resp: 103020

Ion Ratio Lower Upper

96 100

61 203.1 130.0 241.4

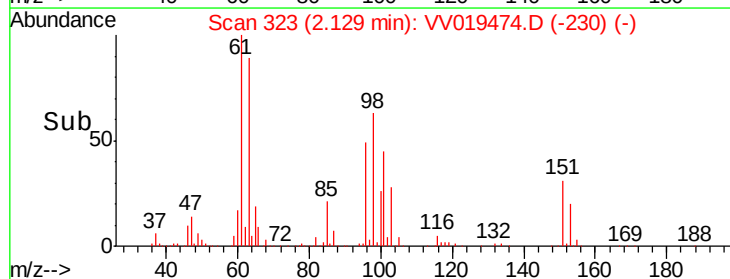
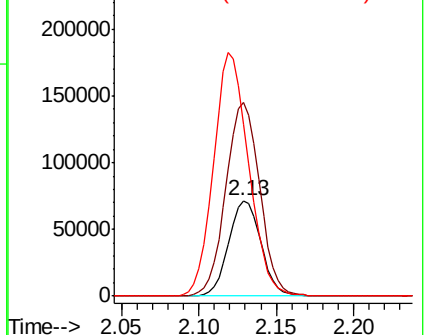
63 180.4 105.1 195.3

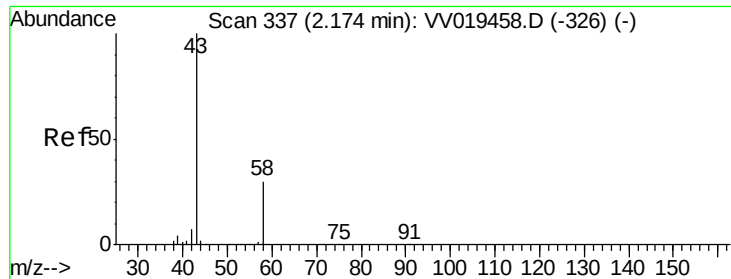


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 115.841 ug/L

RT: 2.17 min Scan# 336

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

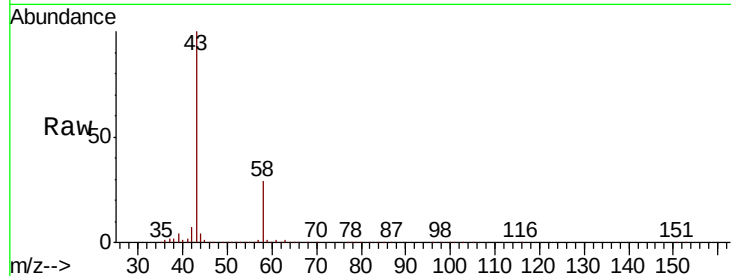
BFB61

Tot Ion: 43 Resp: 177878

Ion Ratio Lower Upper

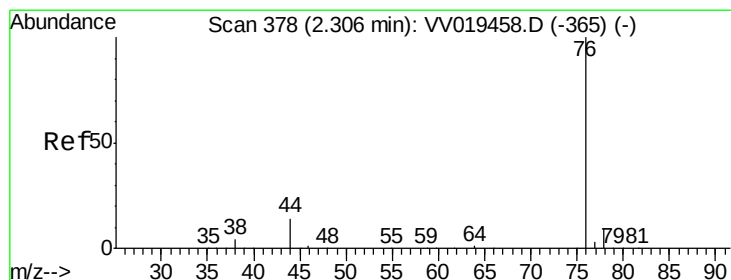
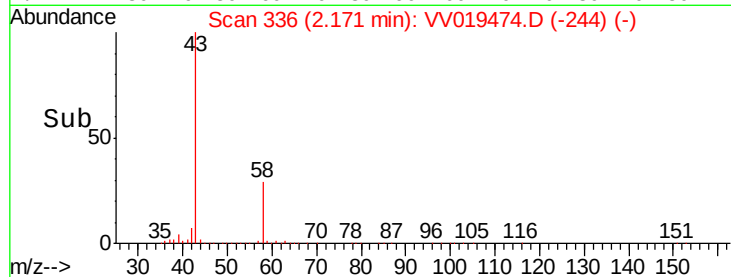
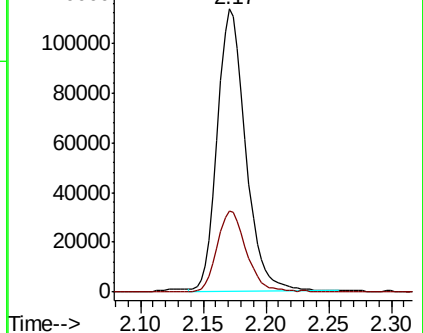
43 100

58 29.2 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VV019458.D (-326) (-)

Ion 58.00 (57.70 to 58.70): VV019458.D (-326) (-)



#14

Carbon disulfide

Concen: 47.128 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV019474.D

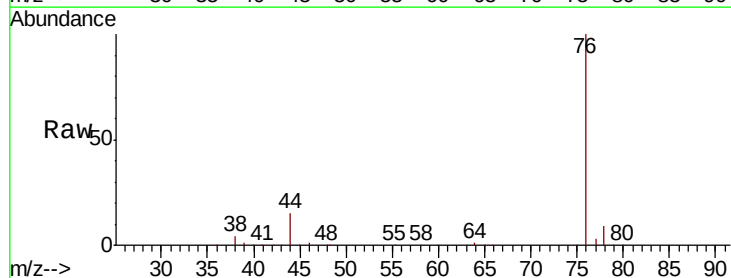
Acq: 04 Dec 2020 12:45

Tgt Ion: 76 Resp: 329475

Ion Ratio Lower Upper

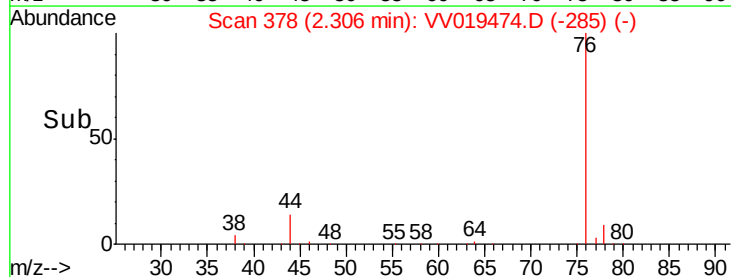
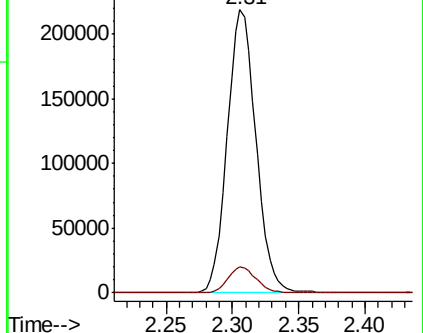
76 100

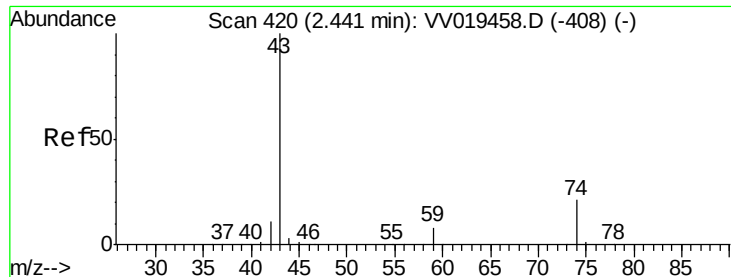
78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019458.D (-365) (-)

Ion 78.00 (77.70 to 78.70): VV019458.D (-365) (-)

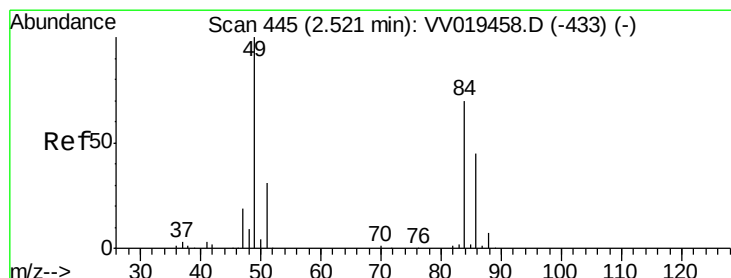
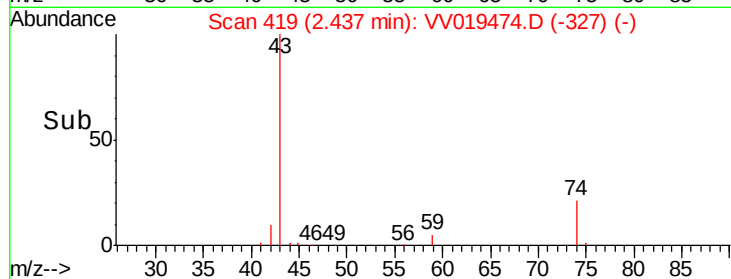
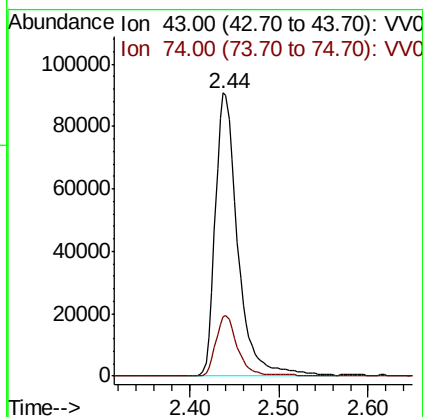
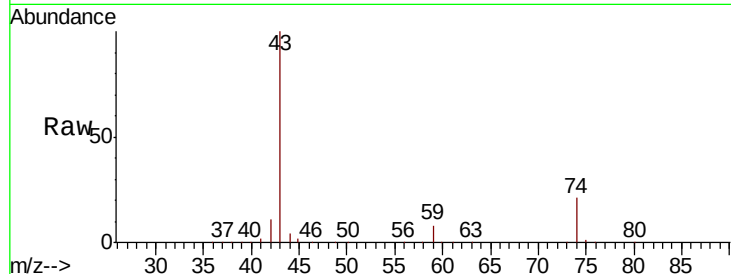




#15
Methvl Acetate
Concen: 50.553 ug/L
RT: 2.44 min Scan# 419
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

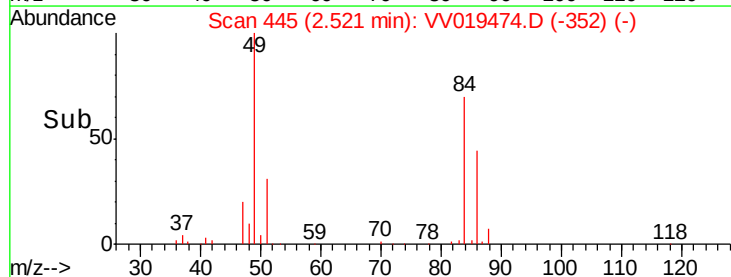
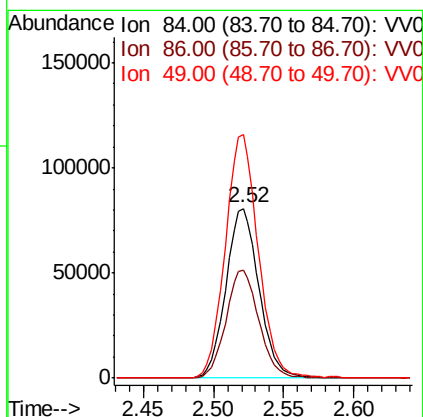
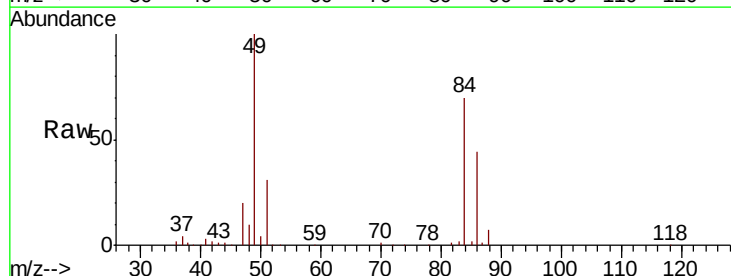
Instrument :
MSVOA_V
ClientSampled :
BFB61

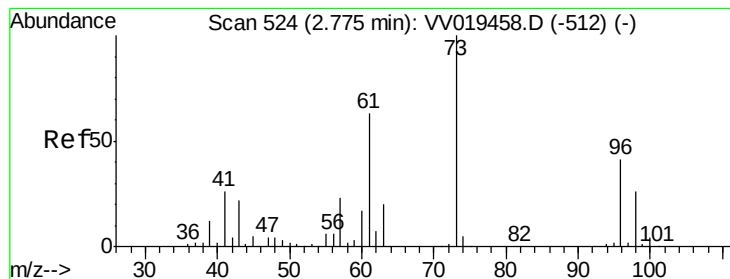
Tot Ion: 43 Resp: 157172
Ion Ratio Lower Upper
43 100
74 20.5 17.8 26.8



#16
Methylene chloride
Concen: 47.321 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Tgt Ion: 84 Resp: 132020
Ion Ratio Lower Upper
84 100
86 63.5 45.8 85.2
49 143.8 92.0 170.9





#17

trans-1,2-Dichloroethene

Concen: 49.641 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

BFB61

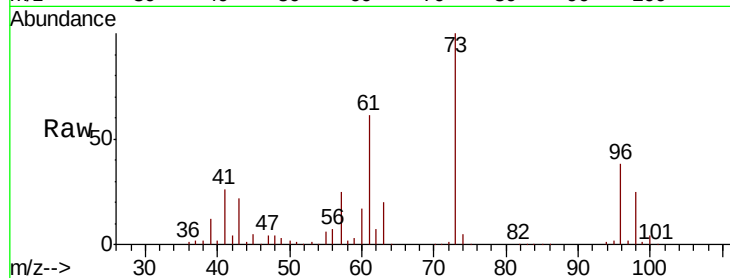
Tot Ion: 96 Resp: 118256

Ion Ratio Lower Upper

96 100

61 161.4 103.7 192.5

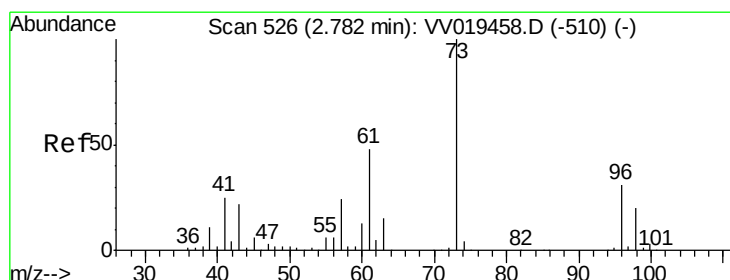
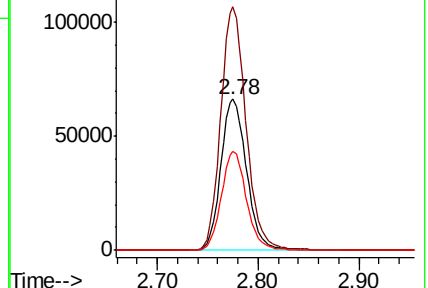
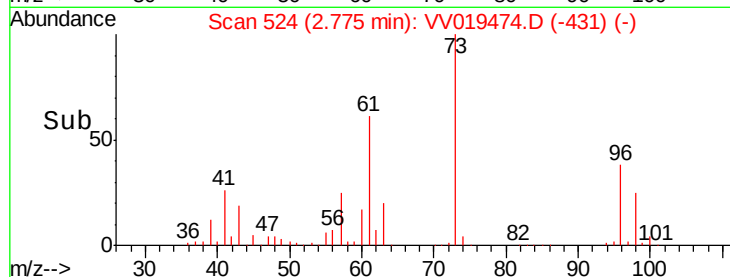
98 65.8 44.0 81.6



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: 52.256 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

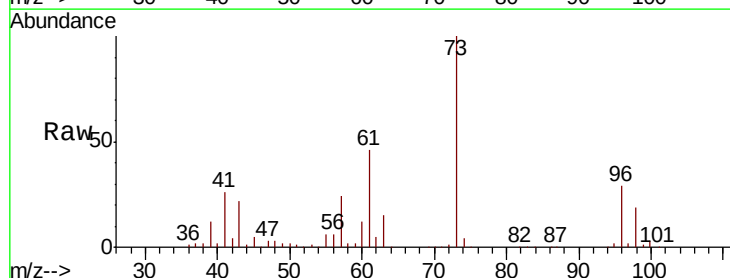
Tgt Ion: 73 Resp: 395848

Ion Ratio Lower Upper

73 100

43 22.0 15.6 23.4

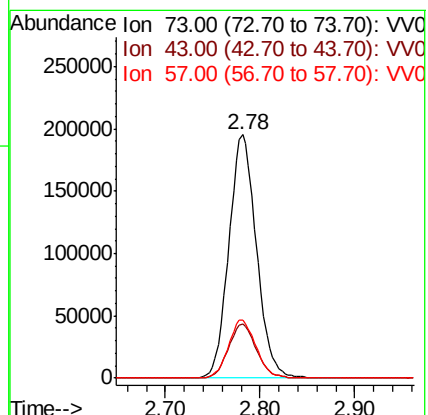
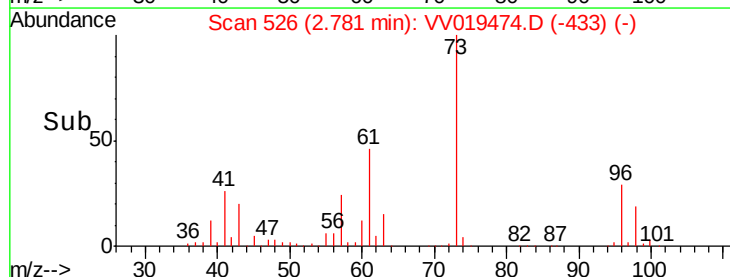
57 23.9 18.3 27.5

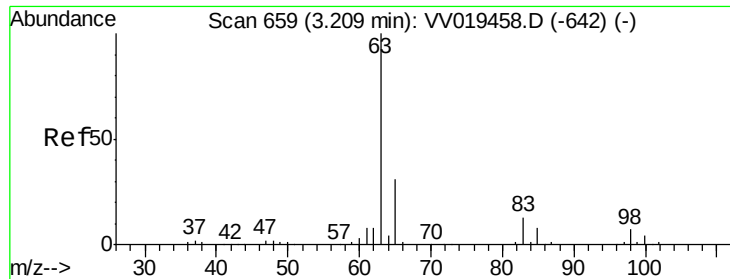


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

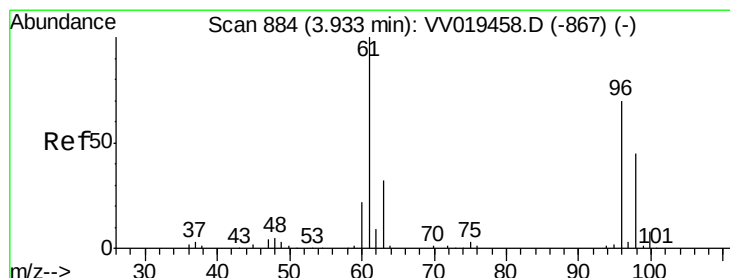
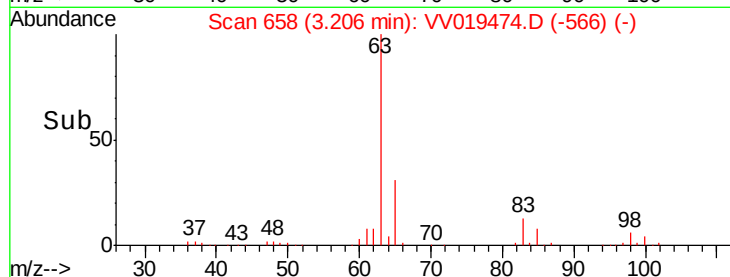
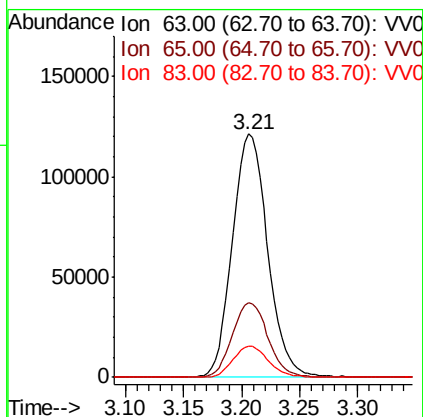
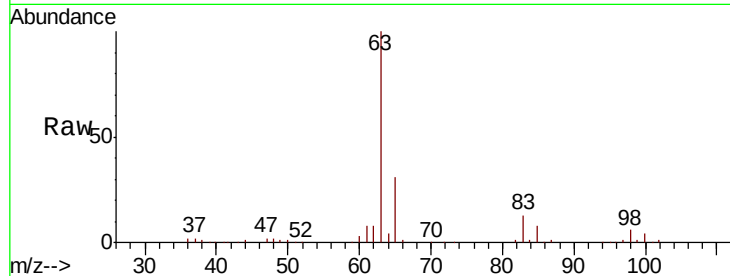




#19
 1,1-Dichloroethane
 Concen: 52.449 ug/L
 RT: 3.21 min Scan# 658
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

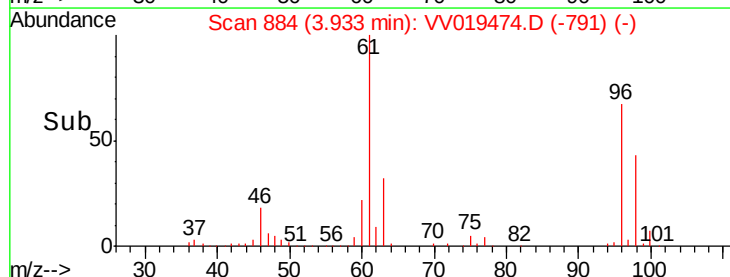
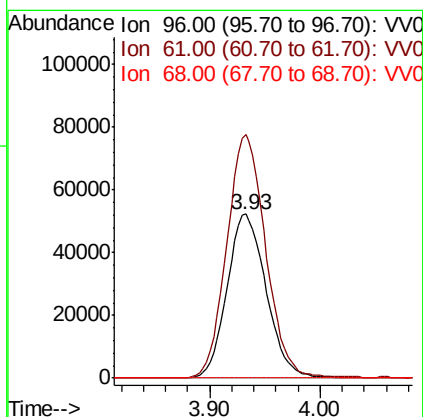
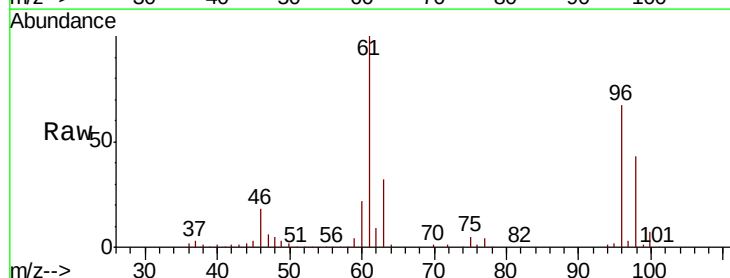
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

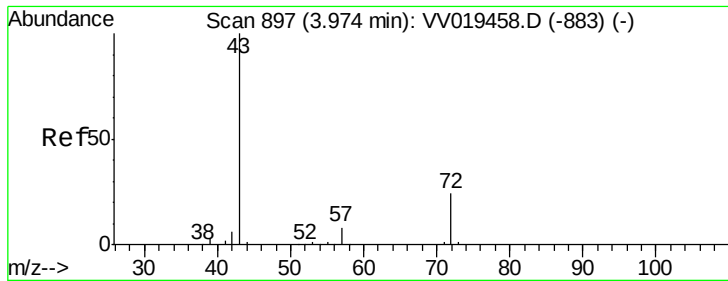
Tot Ion: 63 Resp: 256293
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.8 40.4
 83 12.8 9.8 18.2



#20
 cis-1,2-Dichloroethene
 Concen: 49.168 ug/L
 RT: 3.93 min Scan# 884
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion: 96 Resp: 128716
 Ion Ratio Lower Upper
 96 100
 61 148.8 95.5 177.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 116.604 ug/L

RT: 3.97 min Scan# 897

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

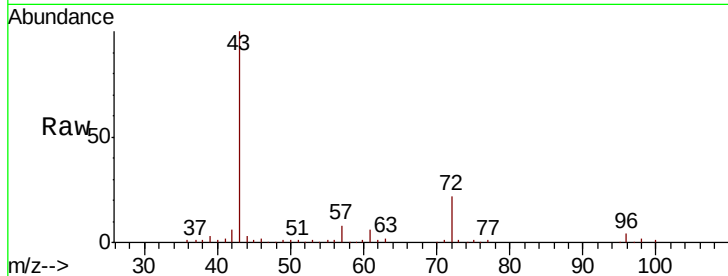
BFB61

Tot Ion: 43 Resp: 237459

Ion Ratio Lower Upper

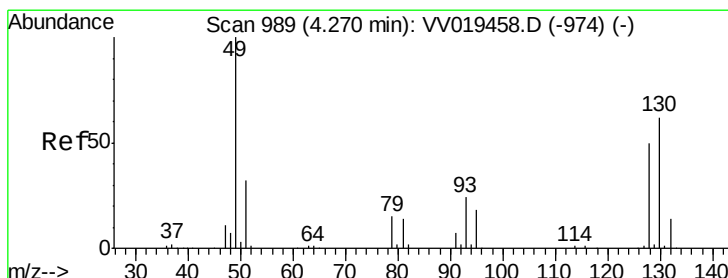
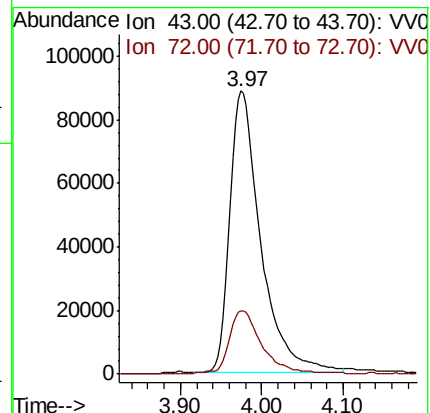
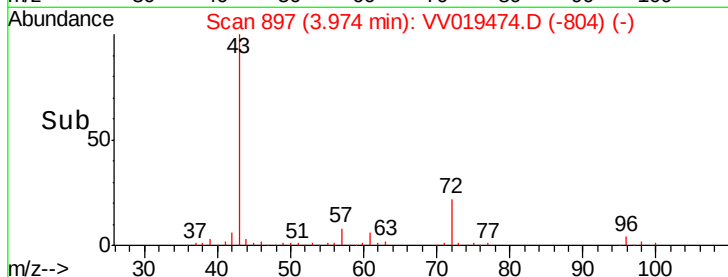
43 100

72 24.1 12.7 38.1



Abundance Ion 43.00 (42.70 to 43.70): VV019474.D (-804) (-)

Ion 72.00 (71.70 to 72.70): VV019474.D (-804) (-)



#23

Bromochloromethane

Concen: 47.084 ug/L

RT: 4.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Tgt Ion: 128 Resp: 65280

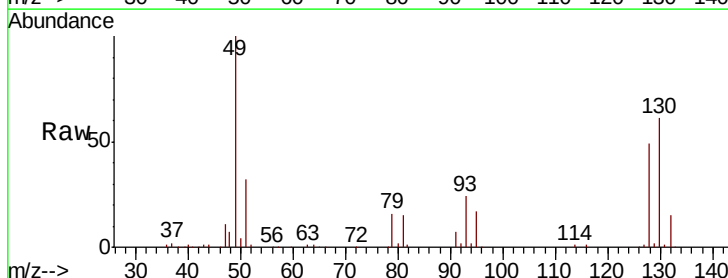
Ion Ratio Lower Upper

128 100

49 206.0 126.1 234.1

130 126.5 89.4 166.0

51 66.4 46.5 69.7

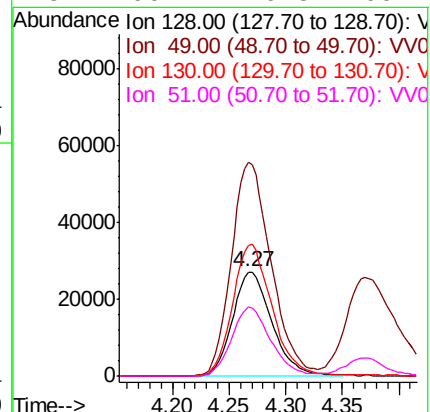
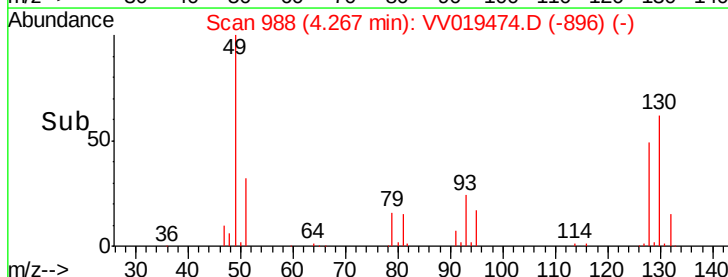


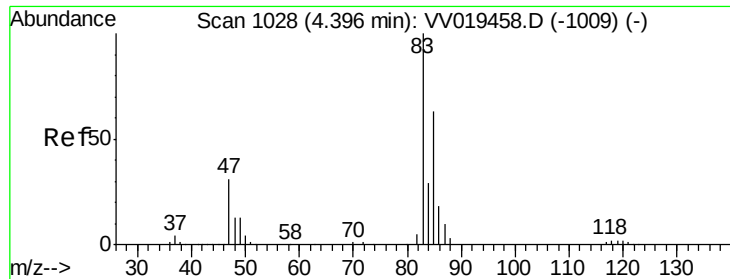
Abundance Ion 128.00 (127.70 to 128.70): VV019474.D (-896) (-)

Ion 49.00 (48.70 to 49.70): VV019474.D (-896) (-)

Ion 130.00 (129.70 to 130.70): VV019474.D (-896) (-)

Ion 51.00 (50.70 to 51.70): VV019474.D (-896) (-)

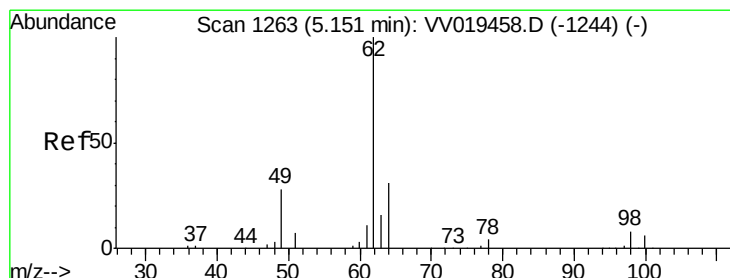
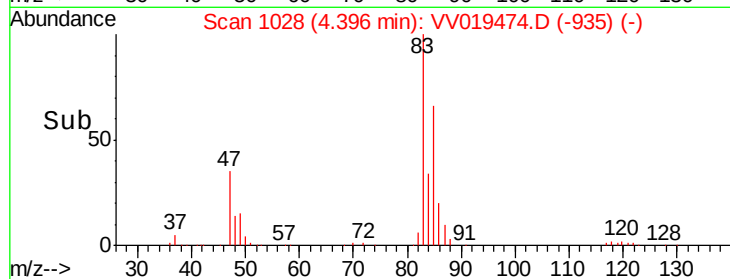
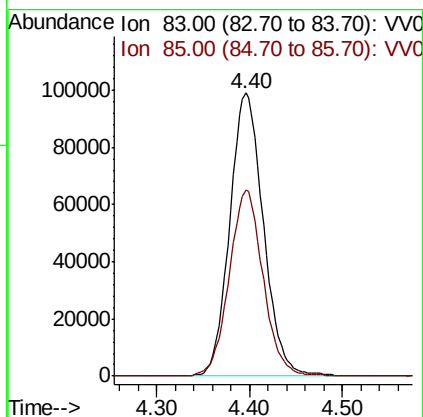
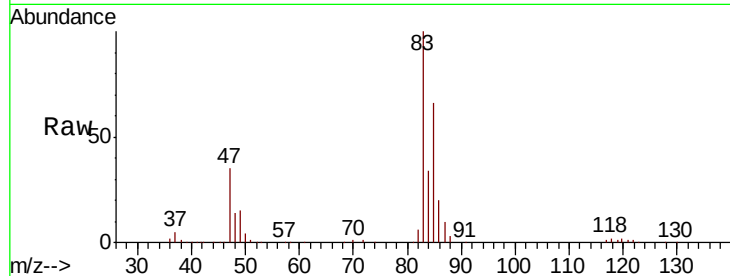




#25
Chloroform
Concen: 50.457 ug/L
RT: 4.40 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

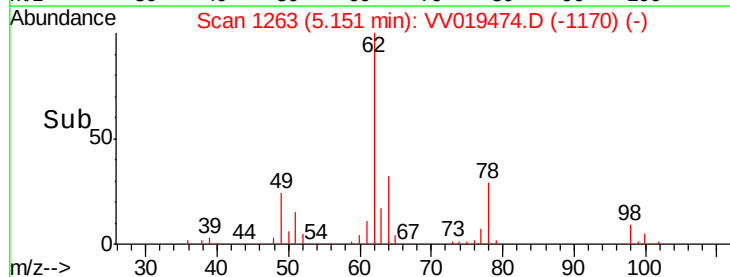
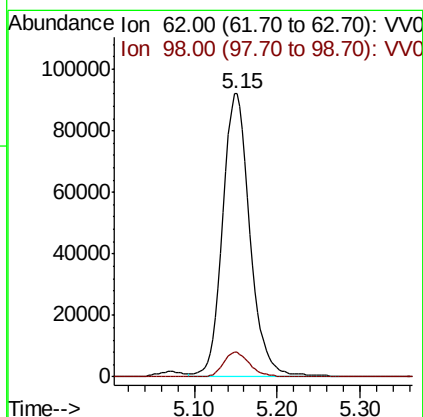
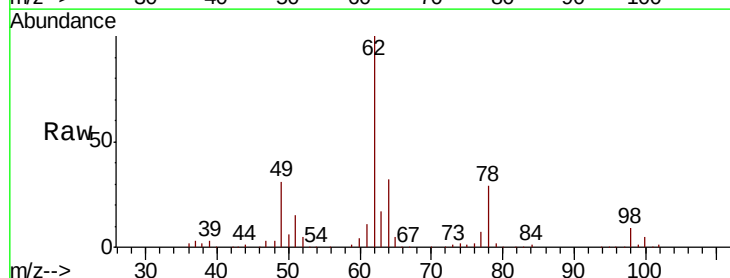
Instrument :
MSVOA_V
ClientSampled :
BFB61

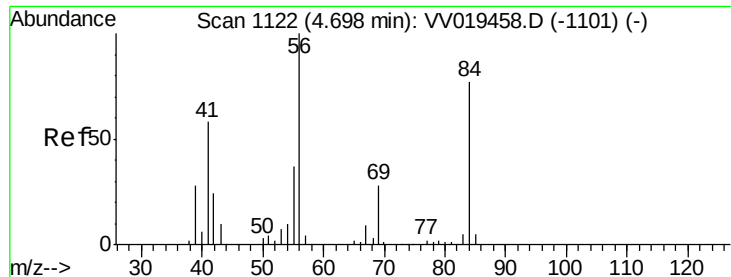
Tot Ion: 83 Resp: 249236
Ion Ratio Lower Upper
83 100
85 65.6 45.1 83.9



#27
1,2-Dichloroethane
Concen: 53.996 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Tgt Ion: 62 Resp: 209275
Ion Ratio Lower Upper
62 100
98 8.6 7.6 11.4

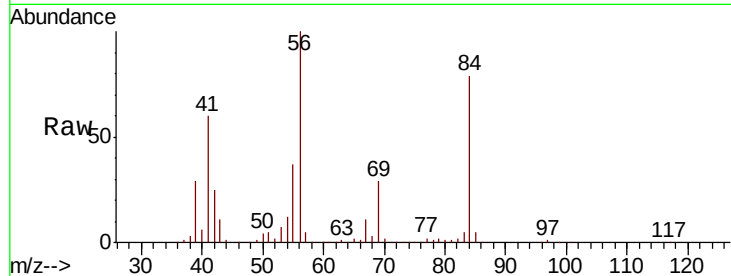




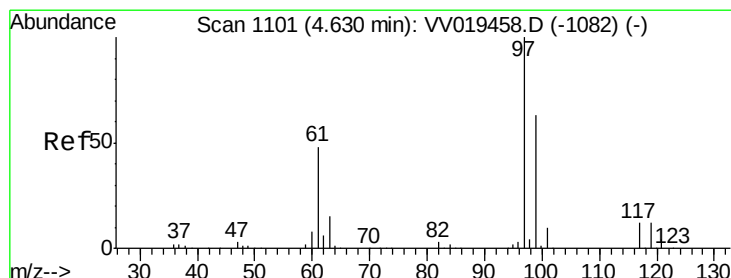
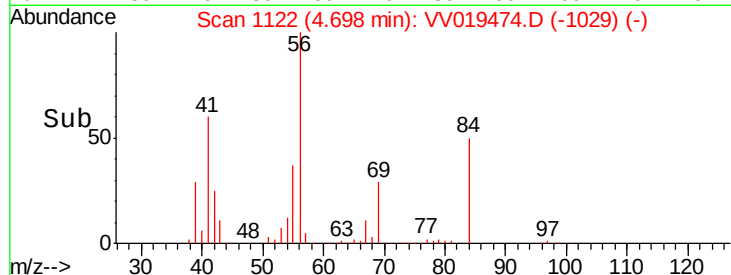
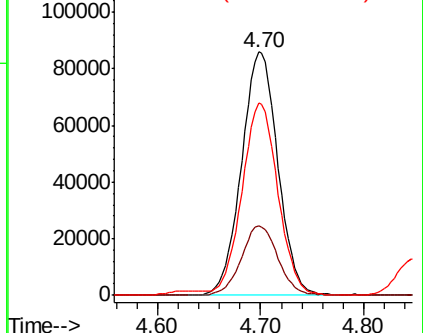
#29
Cyclohexane
Concen: 61.189 ug/L
RT: 4.70 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Instrument :
MSVOA_V
ClientSampled :
BFB61

Tot Ion: 56 Resp: 210153
Ion Ratio Lower Upper
56 100
69 28.6 23.8 35.8
84 78.1 67.0 100.6

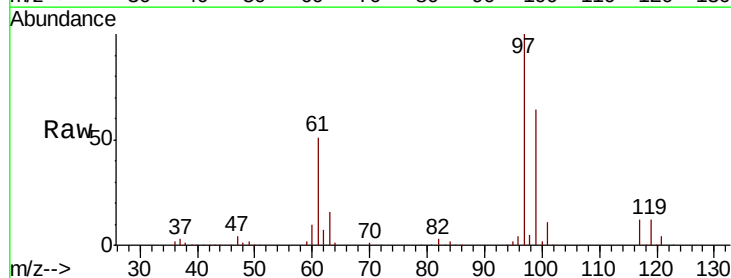


Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0

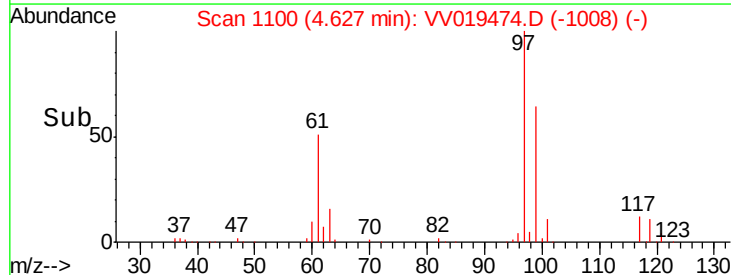
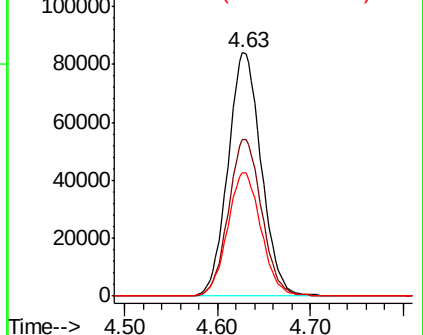


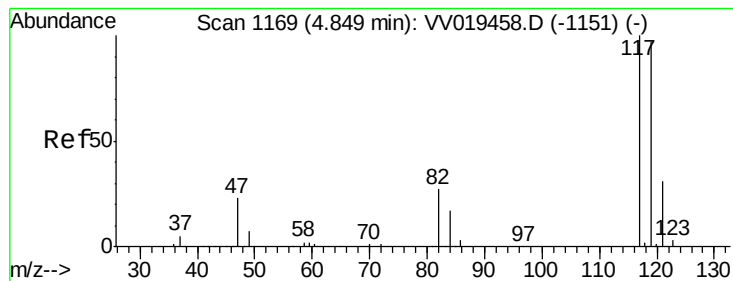
#30
1,1,1-Trichloroethane
Concen: 52.760 ug/L
RT: 4.63 min Scan# 1100
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Tgt Ion: 97 Resp: 209096
Ion Ratio Lower Upper
97 100
99 64.3 51.0 76.6
61 51.3 36.9 55.3



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: 51.656 ug/L

RT: 4.85 min Scan# 1169

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

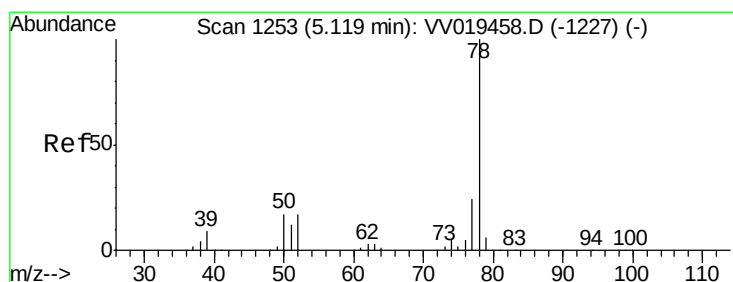
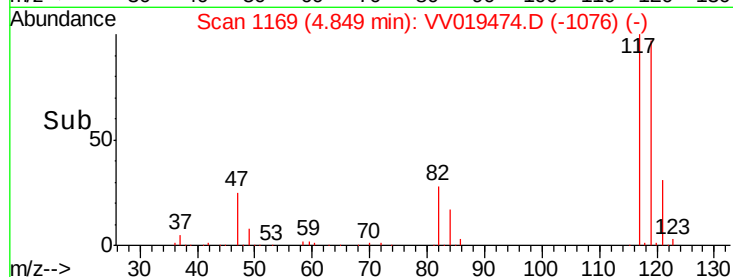
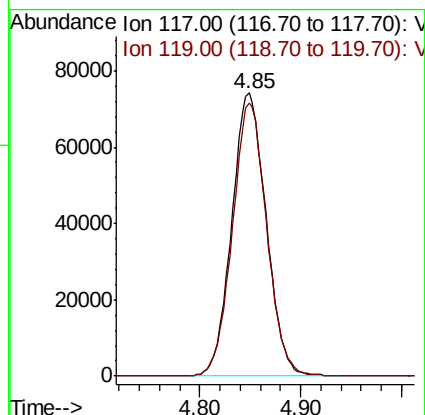
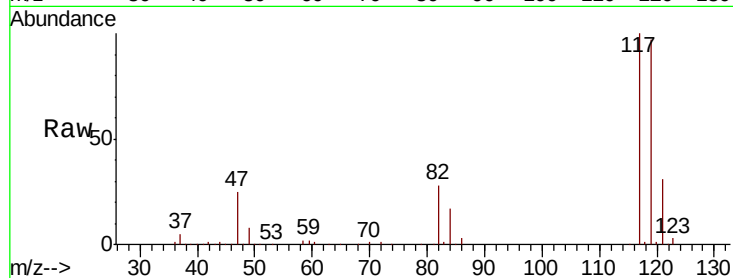
BFB61

Tot Ion:117 Resp: 175748

Ion Ratio Lower Upper

117 100

119 96.1 76.2 114.4



#33

Benzene

Concen: 54.252 ug/L

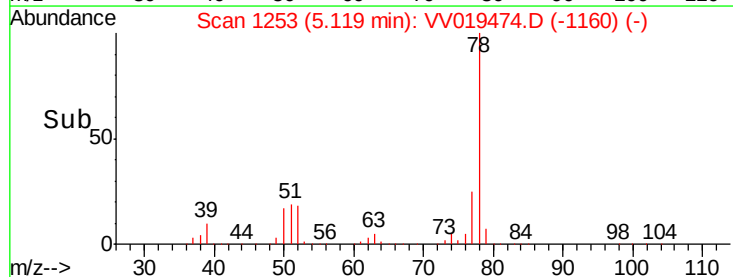
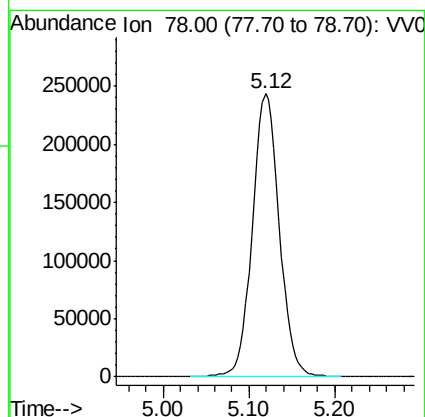
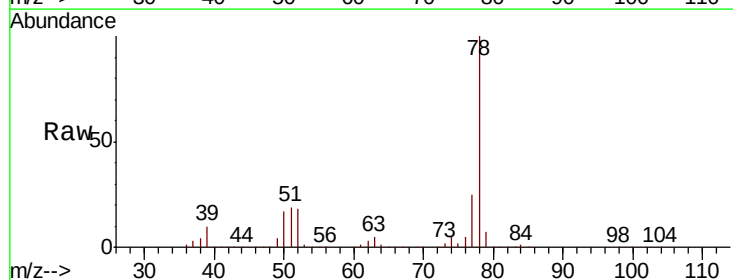
RT: 5.12 min Scan# 1253

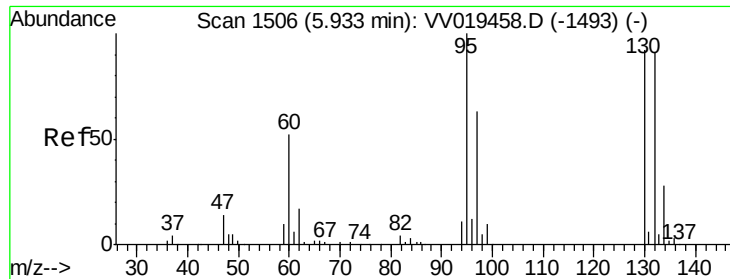
Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Tgt Ion: 78 Resp: 532689





#34

Trichloroethene

Concen: 51.241 ug/L

RT: 5.93 min Scan# 1506

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampled :

BFB61

Tot Ion: 95 Resp: 140304

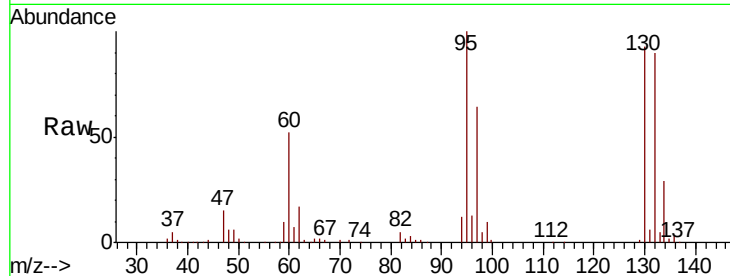
Ion Ratio Lower Upper

95 100

97 63.8 43.8 81.3

132 89.8 65.6 121.8

130 93.3 69.2 128.6

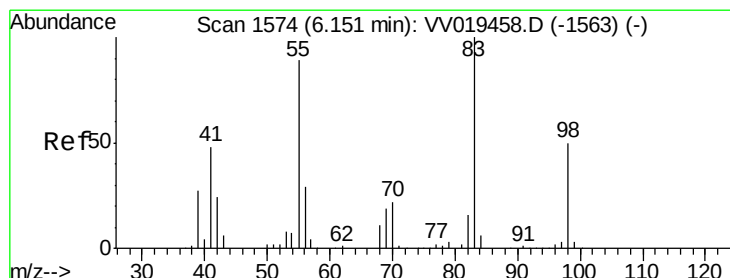
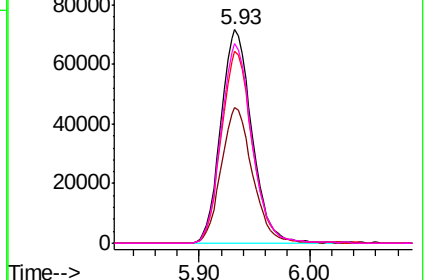
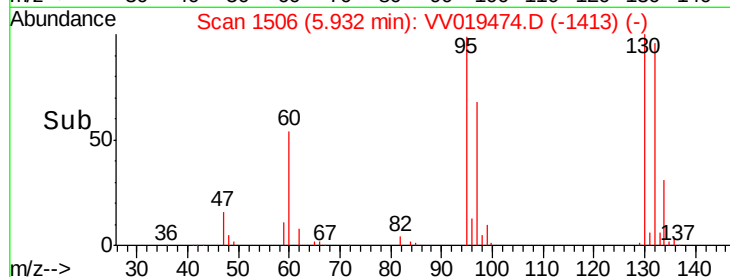


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 60.450 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

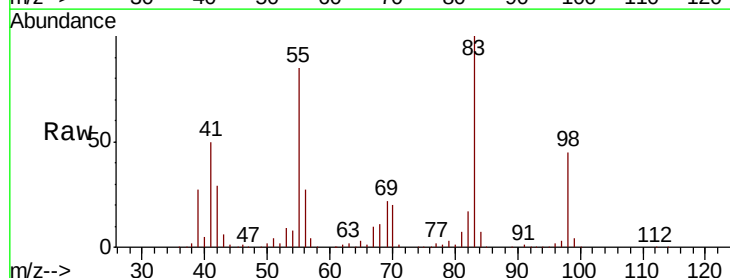
Tgt Ion: 83 Resp: 194772

Ion Ratio Lower Upper

83 100

55 86.7 67.4 101.2

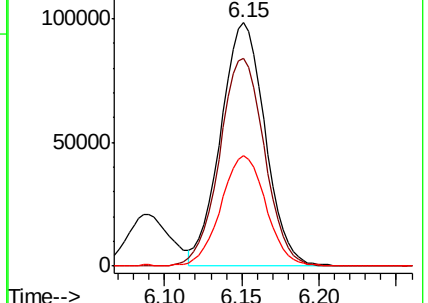
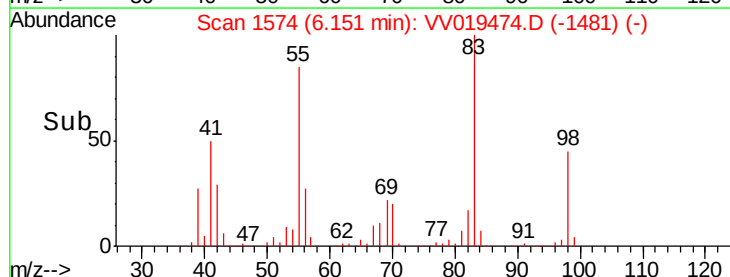
98 46.1 38.3 57.5

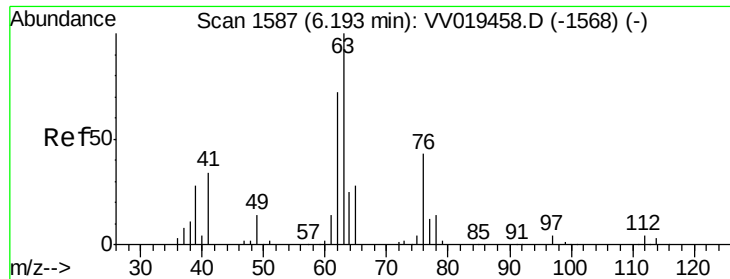


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

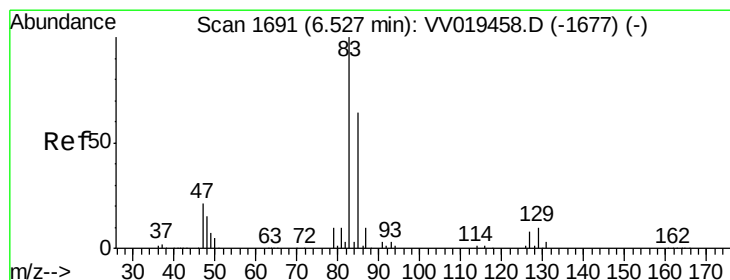
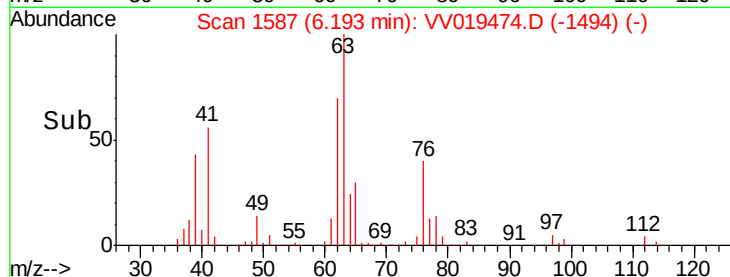
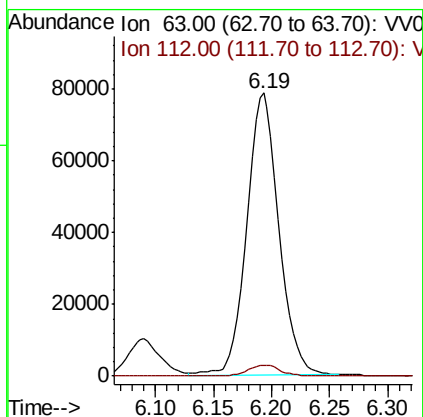
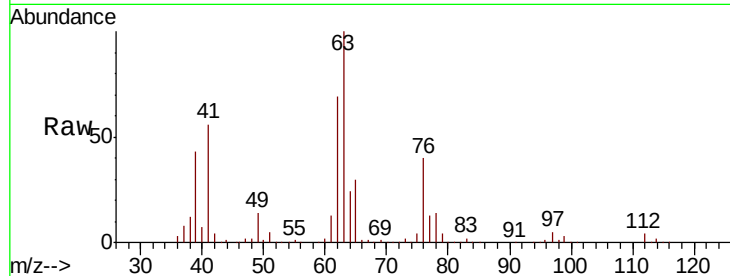




#37
 1,2-Dichloropropane
 Concen: 55.891 ug/L
 RT: 6.19 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

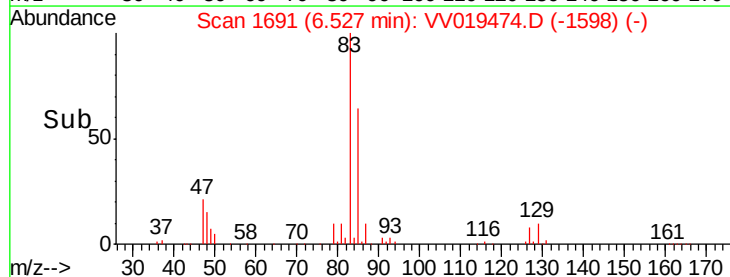
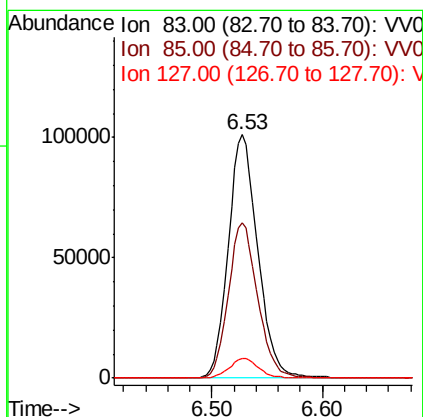
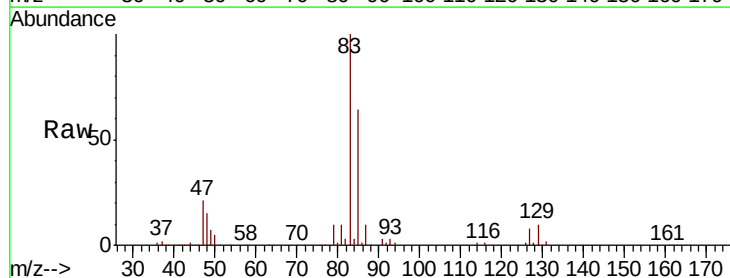
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

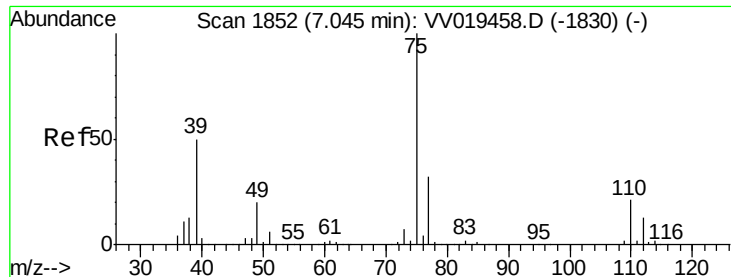
Tot Ion: 63 Resp: 151366
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.8 5.6



#38
 Bromodichloromethane
 Concen: 52.254 ug/L
 RT: 6.53 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion: 83 Resp: 187624
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.3 84.1
 127 8.0 6.6 9.8

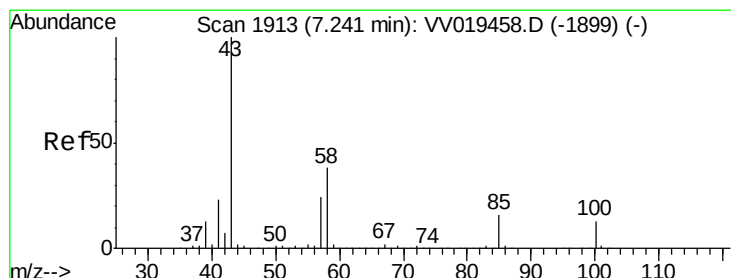
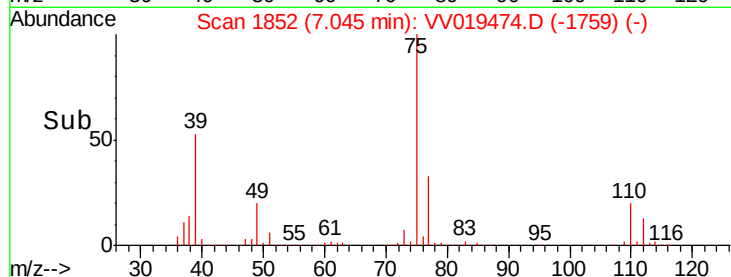
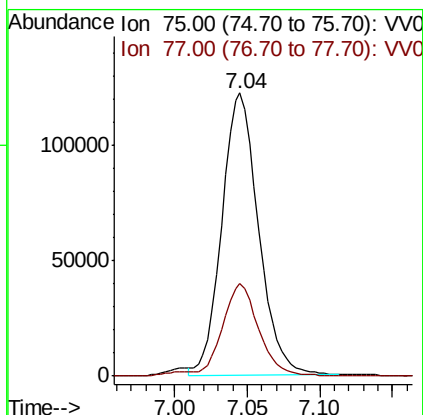
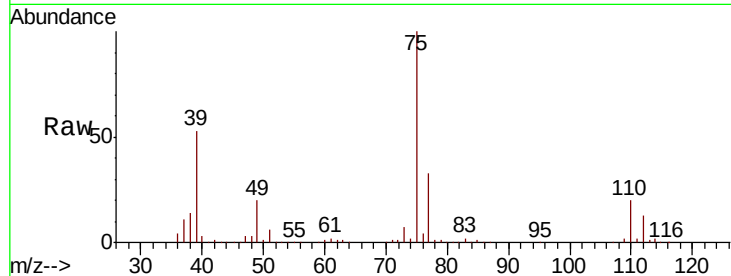




#39
 cis-1,3-Dichloropropene
 Concen: 53.628 ug/L
 RT: 7.04 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

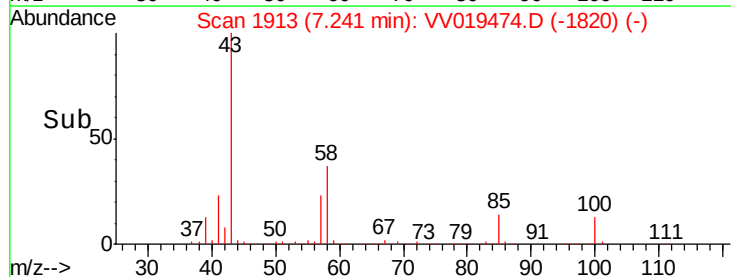
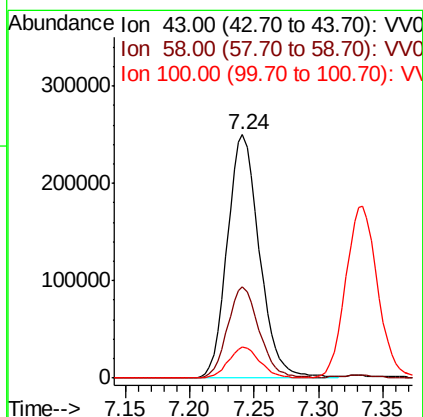
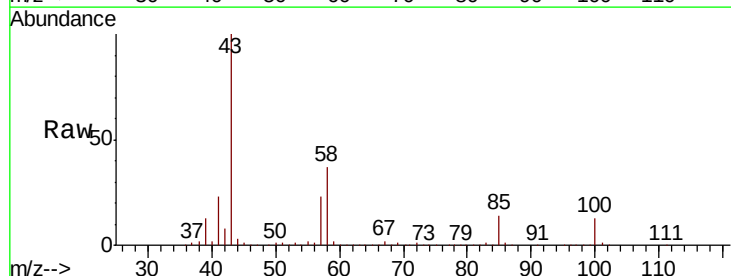
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

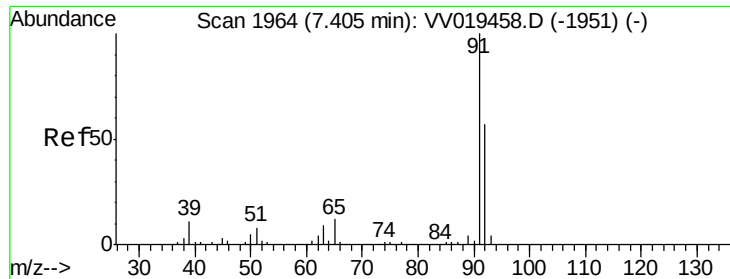
Tot Ion: 75 Resp: 214535
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 113.153 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion: 43 Resp: 432112
 Ion Ratio Lower Upper
 43 100
 58 37.1 31.0 46.4
 100 12.7 11.7 17.5





#42

Toluene

Concen: 54.102 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampled :

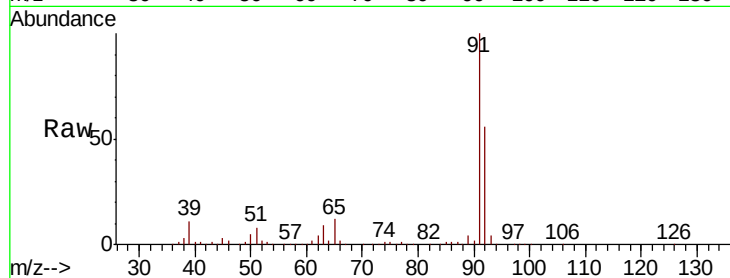
BFB61

Tot Ion: 91 Resp: 551055

Ion Ratio Lower Upper

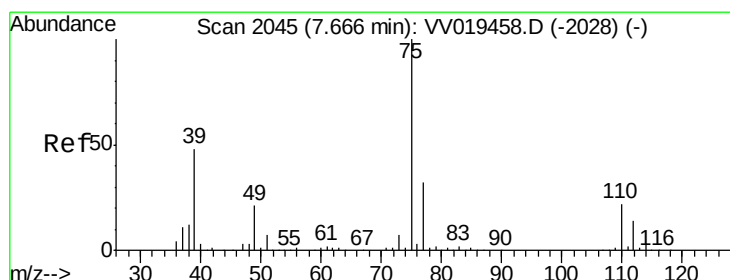
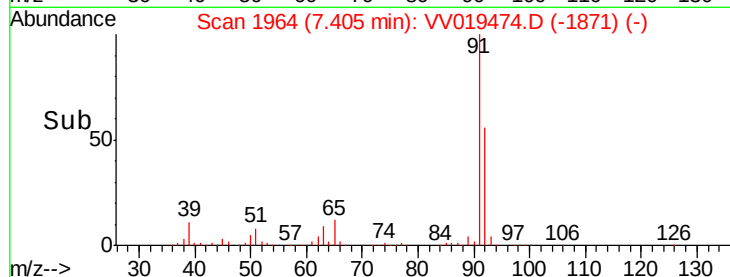
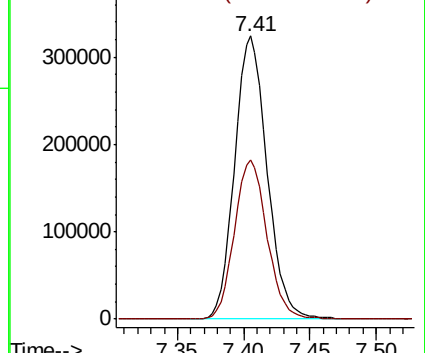
91 100

92 56.1 40.0 74.4



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: 55.862 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019474.D

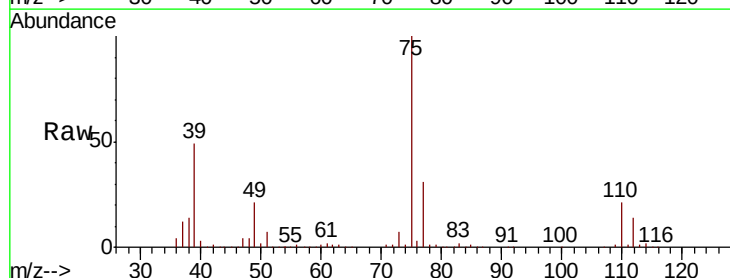
Acq: 04 Dec 2020 12:45

Tgt Ion: 75 Resp: 222593

Ion Ratio Lower Upper

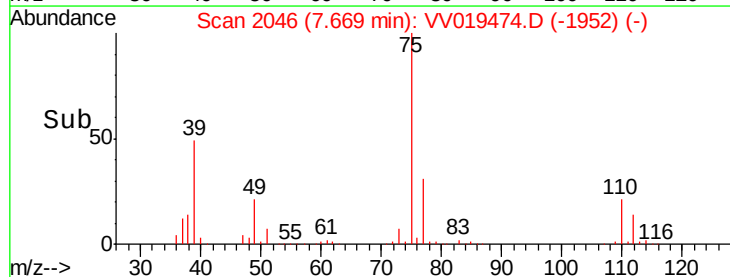
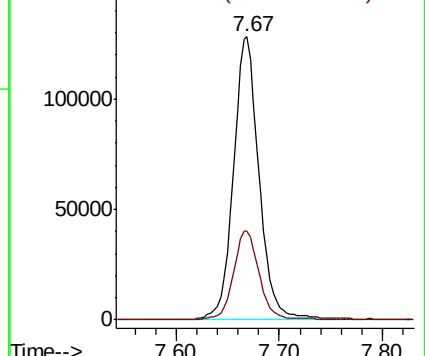
75 100

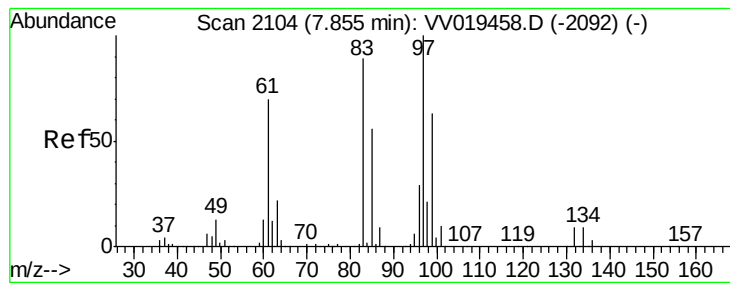
77 31.4 22.8 42.4



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: 50.856 ug/L

RT: 7.86 min Scan# 2104

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

BFB61

Tot Ion: 97 Resp: 128970

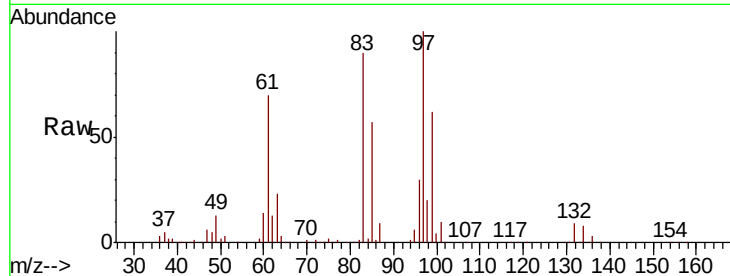
Ion Ratio Lower Upper

97 100

99 62.4 43.7 81.1

83 90.2 62.0 115.2

85 56.9 40.0 74.4



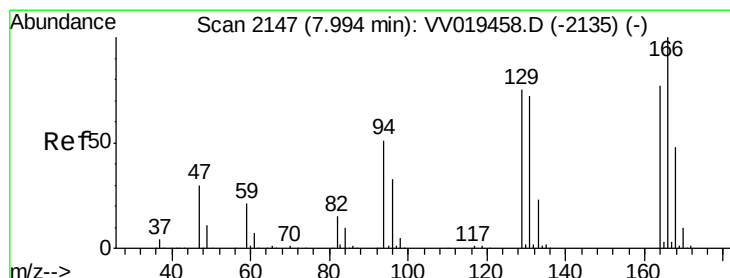
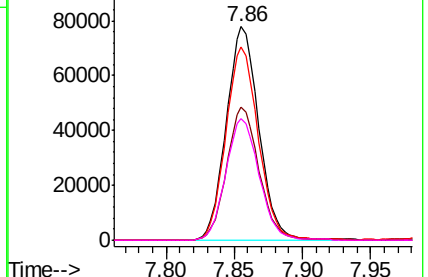
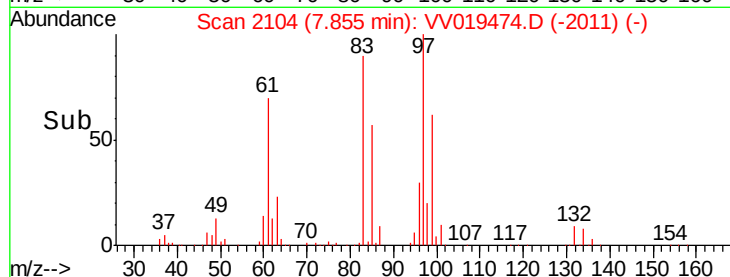
Abundance Ion 97.00 (96.70 to 97.70): VV0

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

Time-->



#46

Tetrachloroethene

Concen: 49.614 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Tgt Ion: 164 Resp: 94349

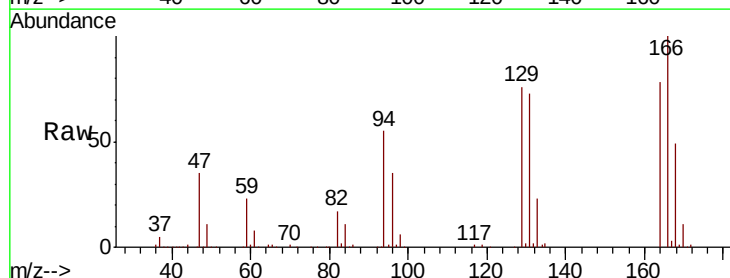
Ion Ratio Lower Upper

164 100

129 97.3 62.9 116.7

131 93.3 61.1 113.5

166 127.9 86.5 160.6



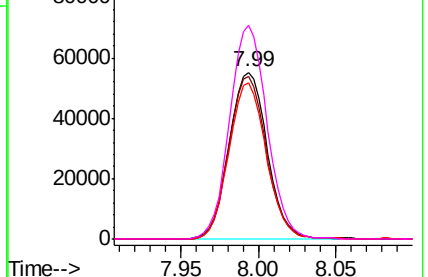
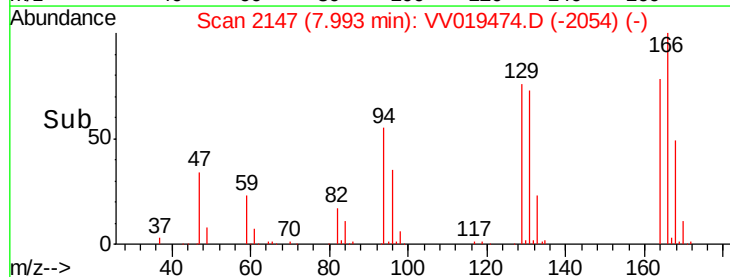
Abundance Ion 164.00 (163.70 to 164.70): V

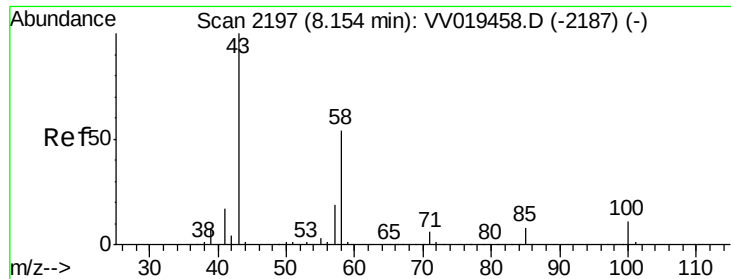
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->

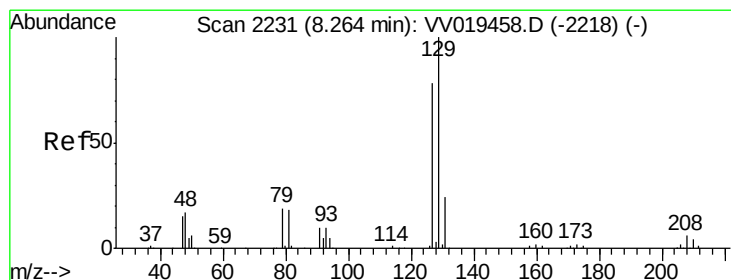
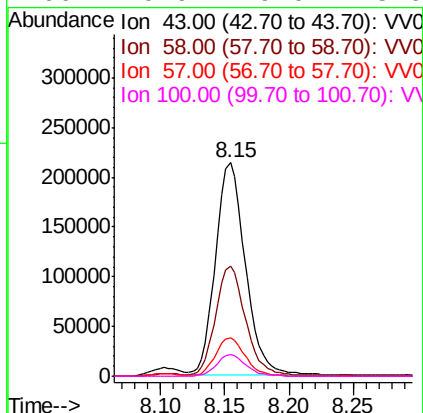
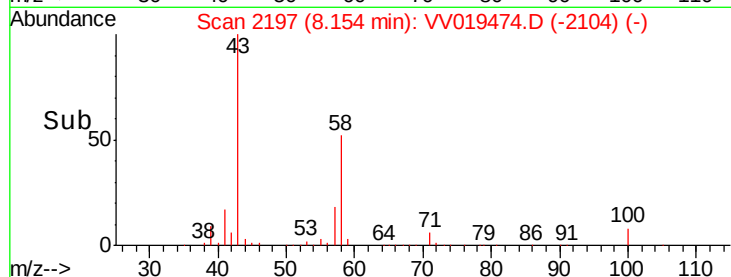
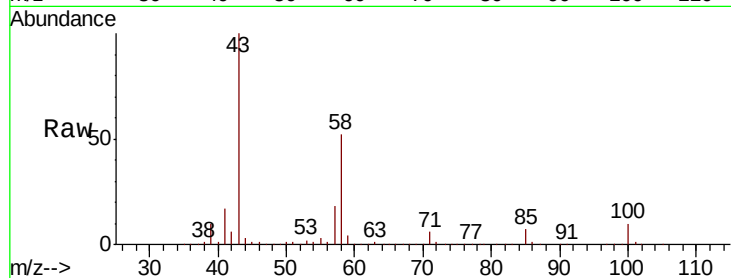




#48
2-Hexanone
Concen: 113.949 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

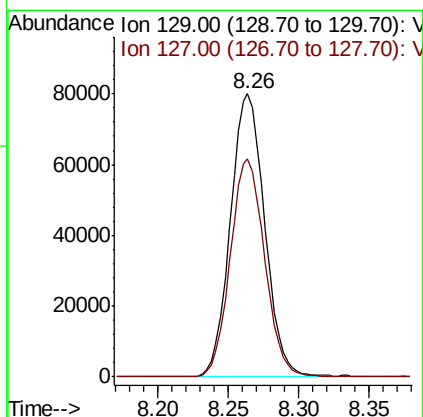
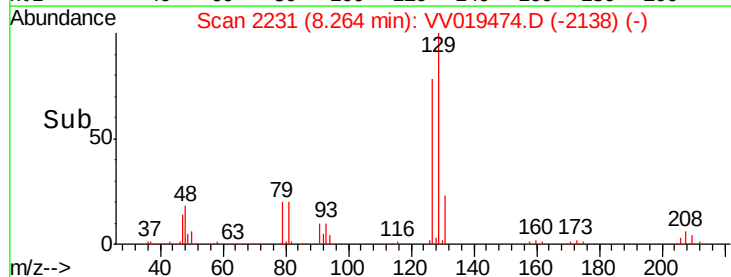
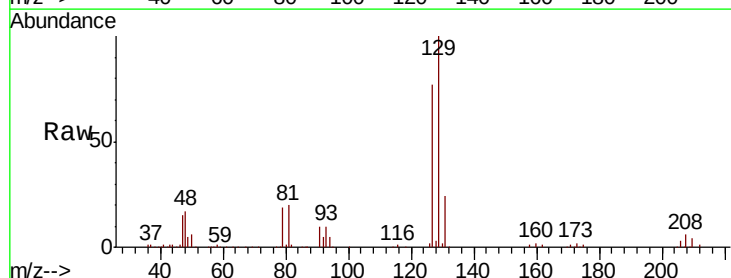
Instrument :
MSVOA_V
ClientSampleId :
BFB61

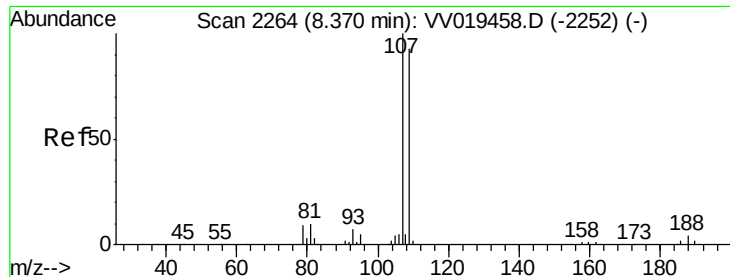
Tot Ion: 43 Resp: 344649
Ion Ratio Lower Upper
43 100
58 51.5 43.8 65.6
57 17.6 15.4 23.2
100 9.9 9.0 13.6



#49
Dibromochloromethane
Concen: 48.548 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Tgt Ion: 129 Resp: 136071
Ion Ratio Lower Upper
129 100
127 76.9 53.5 99.5

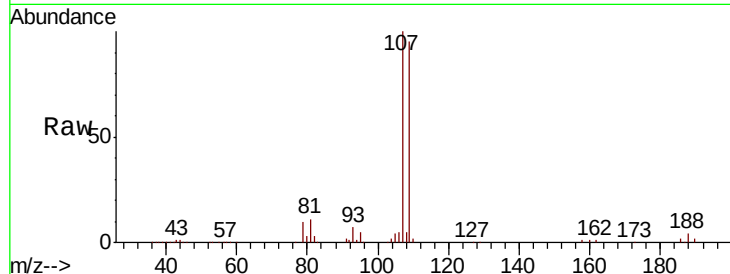




#50
1,2-Dibromoethane
Concen: 49.049 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Instrument :
MSVOA_V
ClientSampleId :
BFB61

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	66.1	122.8
188	3.7	3.0	4.4

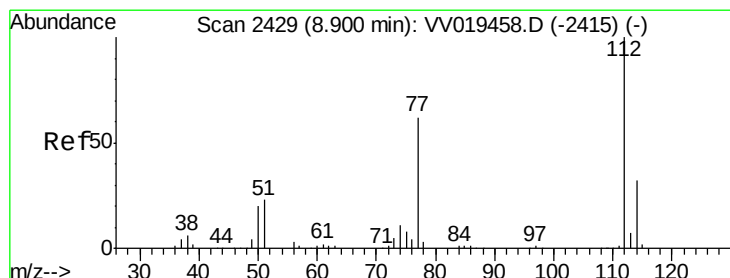
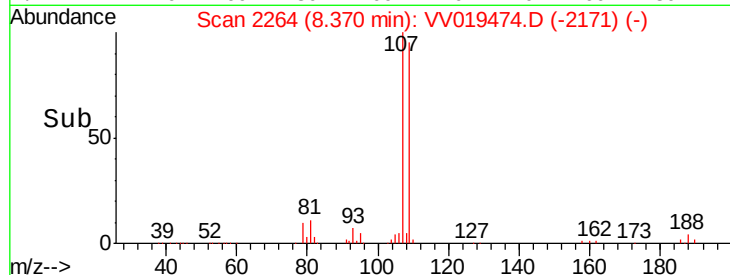
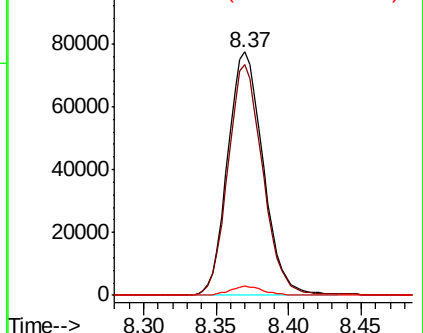


Abundance

Ion 107.00 (106.70 to 107.70): V

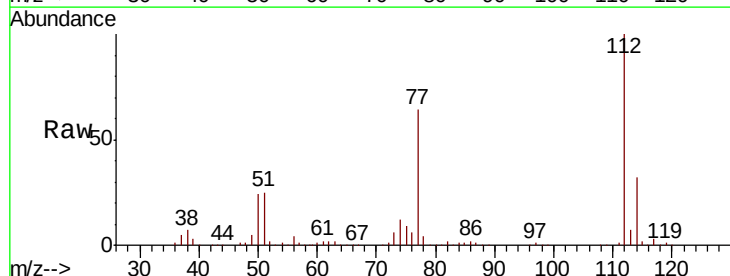
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 49.772 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV019474.D
Acq: 04 Dec 2020 12:45

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.7	42.1
77	64.3	50.3	75.5

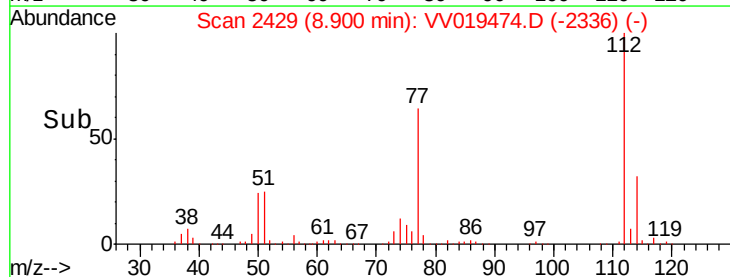
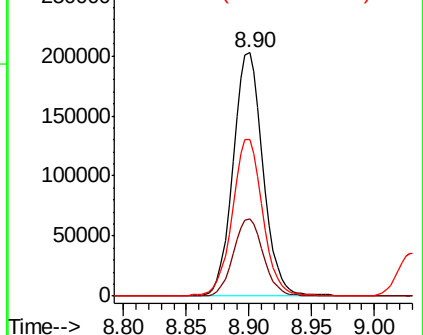


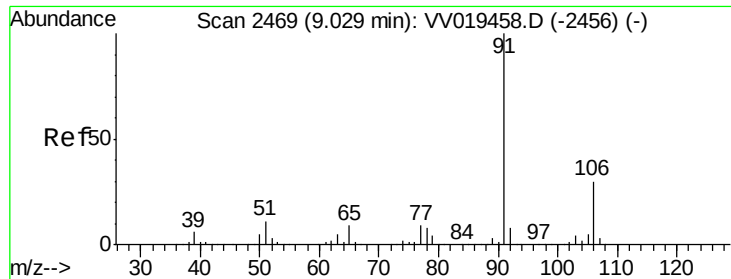
Abundance

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): VV0





#52

Ethylbenzene

Concen: 54.822 ug/L

RT: 9.03 min Scan# 2469

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

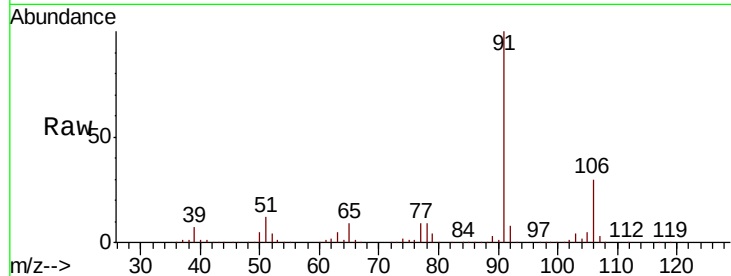
BFB61

Tot Ion: 91 Resp: 599236

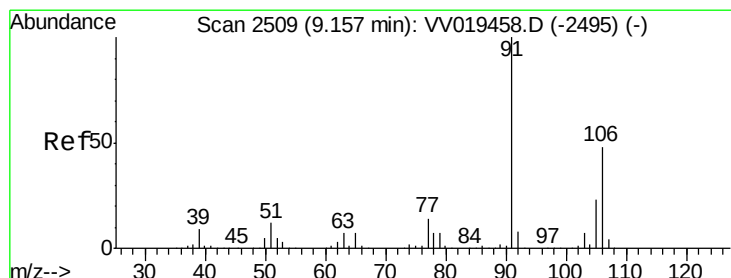
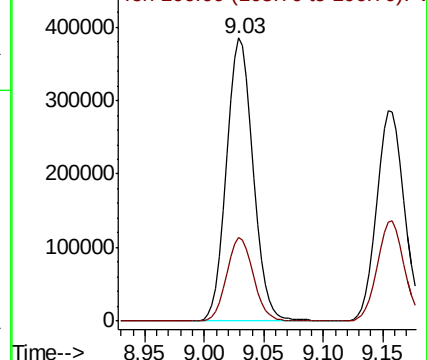
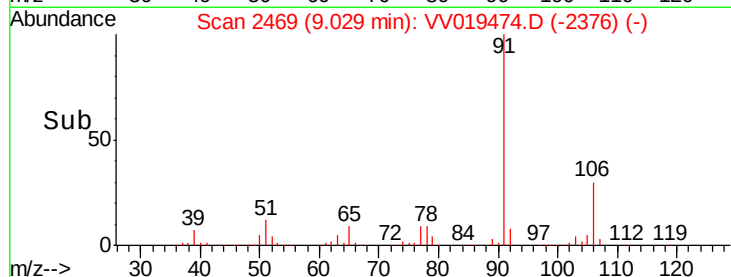
Ion Ratio Lower Upper

91 100

106 29.6 21.4 39.8



Abundance Ion 91.00 (90.70 to 91.70): VV019474.D (-2376) (-)



#53

m,p-Xylene

Concen: 53.348 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV019474.D

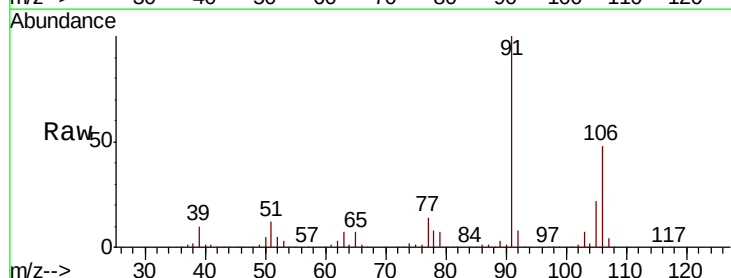
Acq: 04 Dec 2020 12:45

Tgt Ion: 106 Resp: 215756

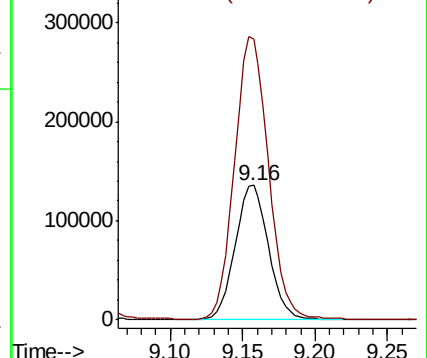
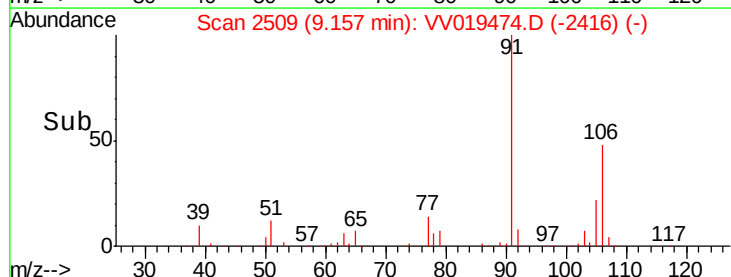
Ion Ratio Lower Upper

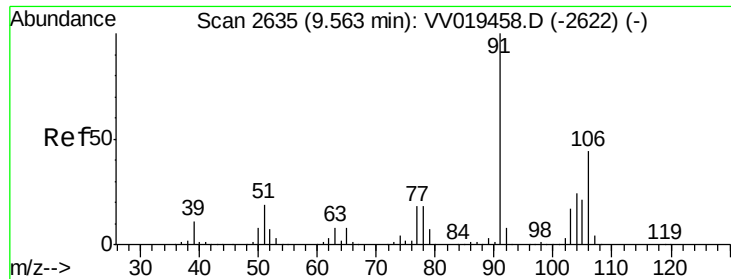
106 100

91 209.0 148.7 276.3



Abundance Ion 106.00 (105.70 to 106.70): VV019474.D (-2416) (-)





#54

o-xylene

Concen: 53.119 ug/L

RT: 9.56 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

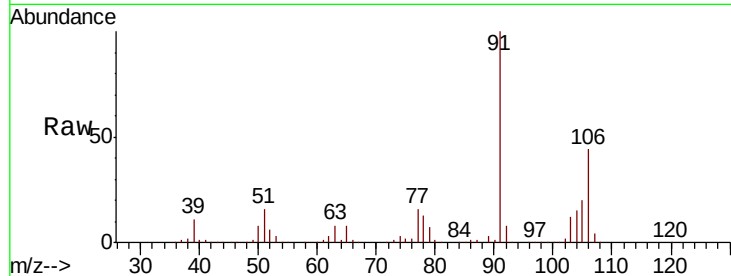
BFB61

Tot Ion:106 Resp: 209177

Ion Ratio Lower Upper

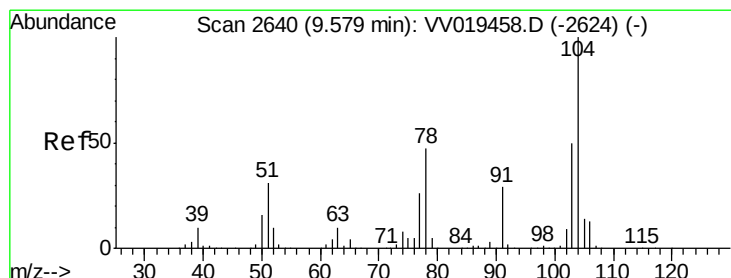
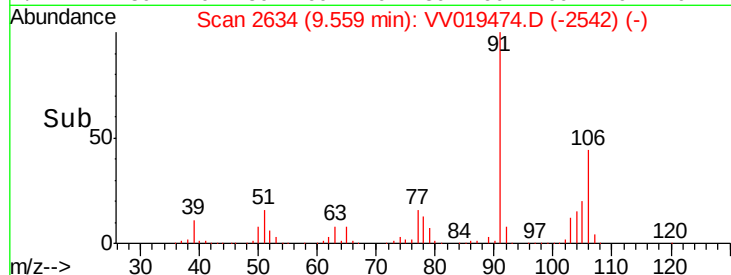
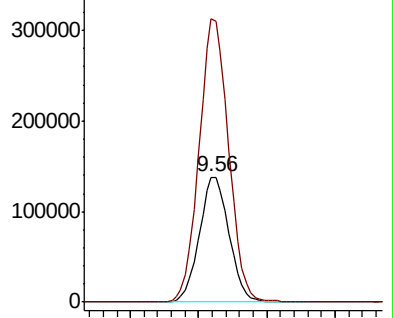
106 100

91 226.2 155.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 53.588 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV019474.D

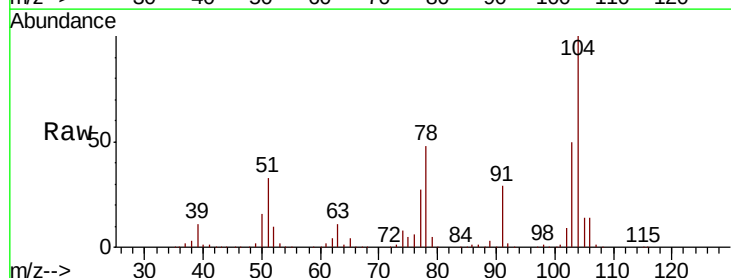
Acq: 04 Dec 2020 12:45

Tgt Ion:104 Resp: 377758

Ion Ratio Lower Upper

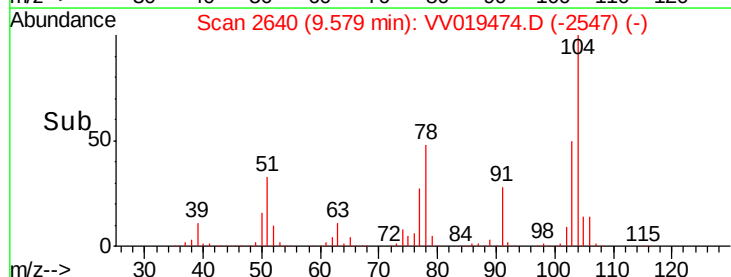
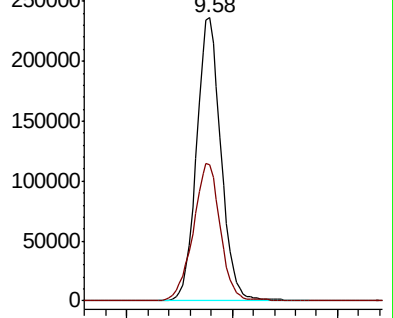
104 100

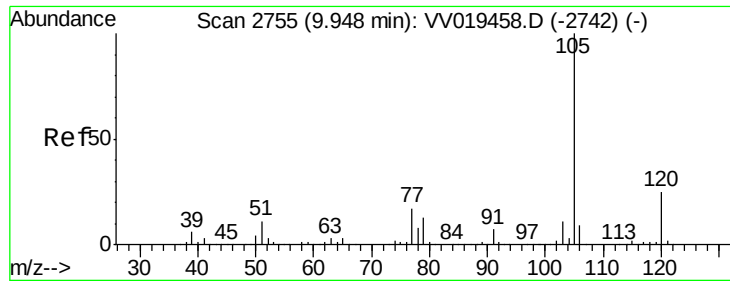
78 48.1 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 54.716 ug/L

RT: 9.95 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

BFB61

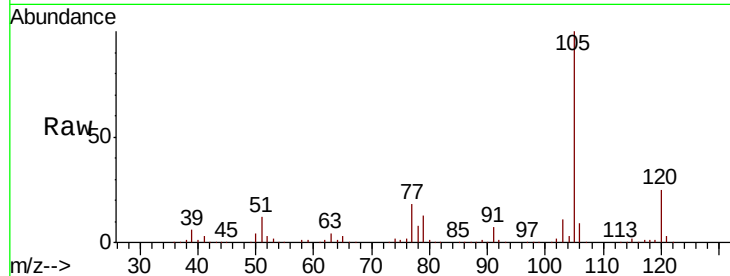
Tot Ion:105 Resp: 564505

Ion Ratio Lower Upper

105 100

120 25.1 20.8 31.2

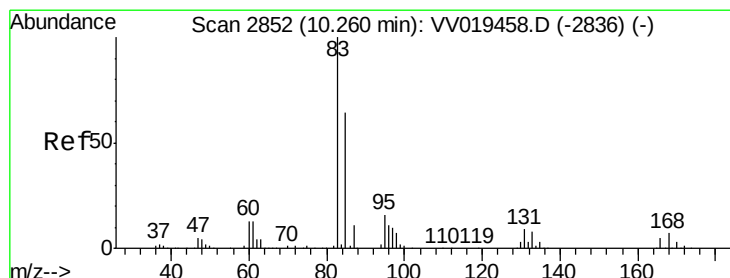
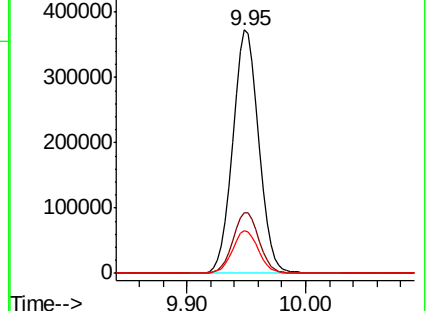
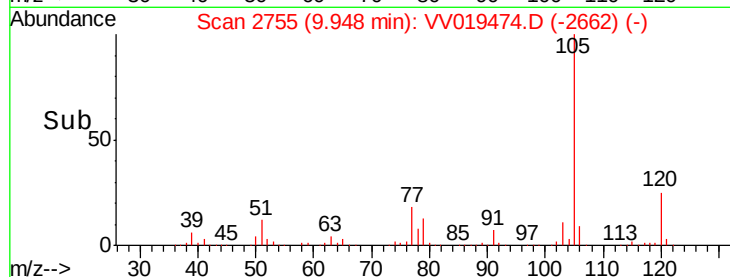
77 17.6 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.331 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

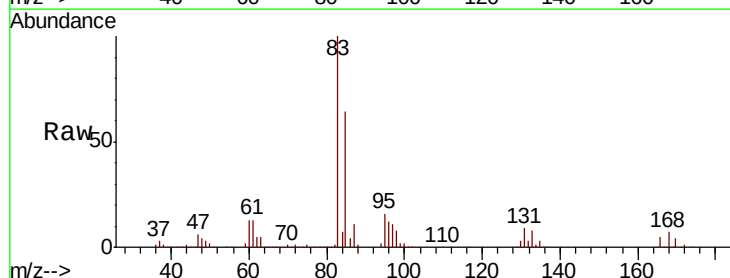
Tgt Ion: 83 Resp: 198974

Ion Ratio Lower Upper

83 100

85 63.7 44.8 83.2

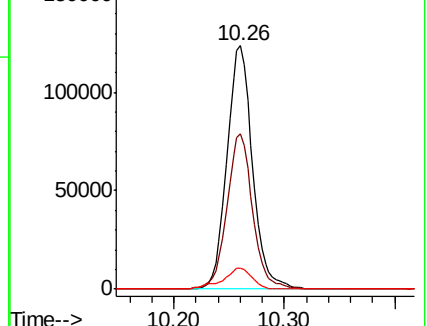
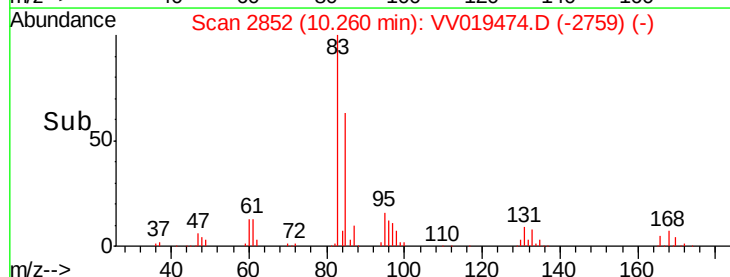
131 8.5 7.2 10.8

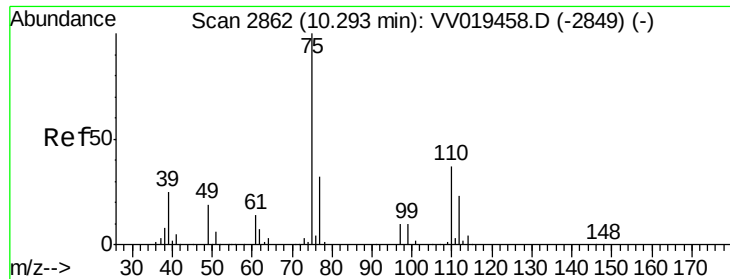


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.305 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampled :

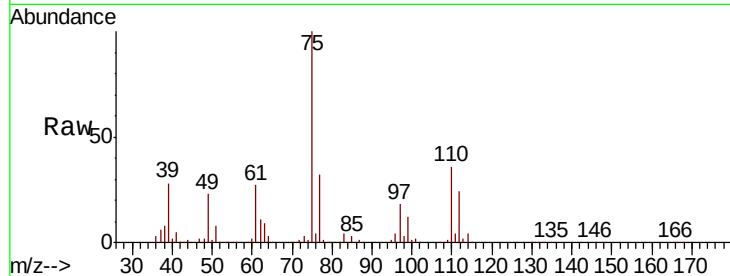
BFB61

Tot Ion: 75 Resp: 175401

Ion Ratio Lower Upper

75 100

77 32.2 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VV019458.D (-2849) (-)

Ion 77.00 (76.70 to 77.70): VV019458.D (-2849) (-)

10.29

120000

100000

80000

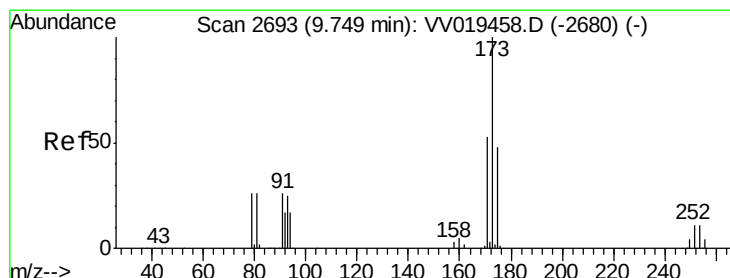
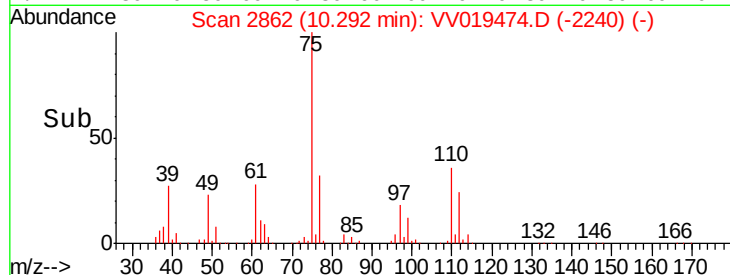
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 45.623 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

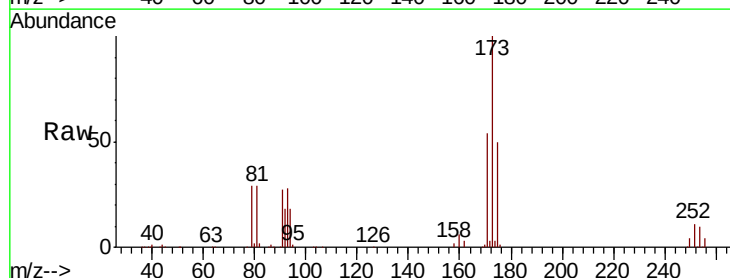
Tgt Ion:173 Resp: 93556

Ion Ratio Lower Upper

173 100

175 49.5 38.8 58.2

254 10.0 8.6 13.0



Abundance Ion 173.00 (172.70 to 173.70): VV019458.D (-2680) (-)

Ion 175.00 (174.70 to 175.70): VV019458.D (-2680) (-)

Ion 254.00 (253.70 to 254.70): VV019458.D (-2680) (-)

9.75

80000

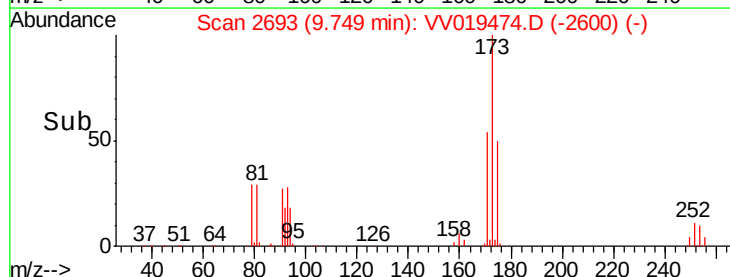
60000

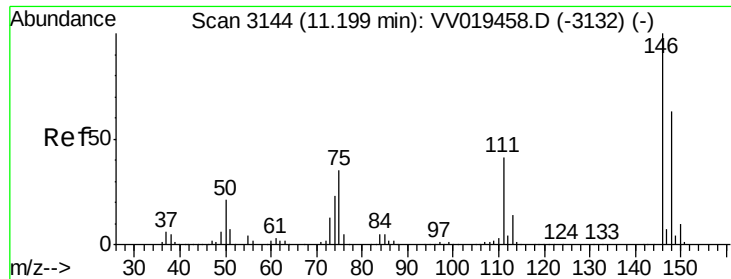
40000

20000

0

Time-->

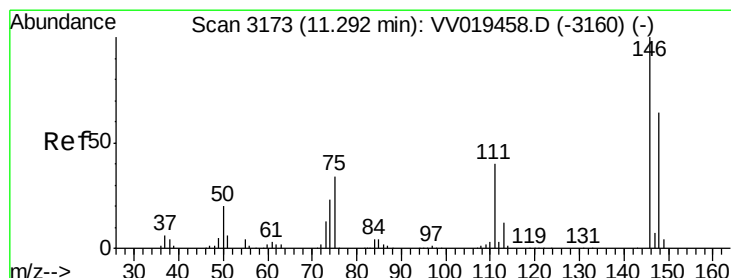
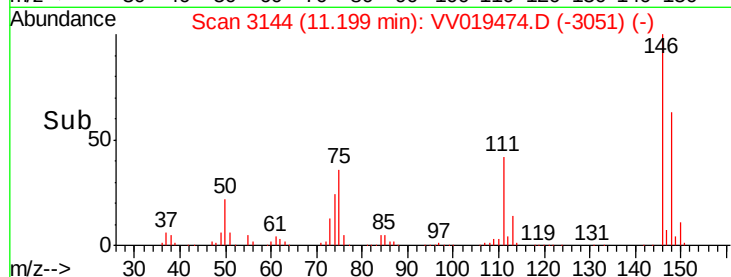
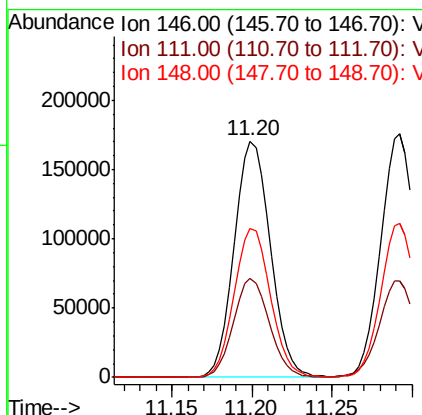
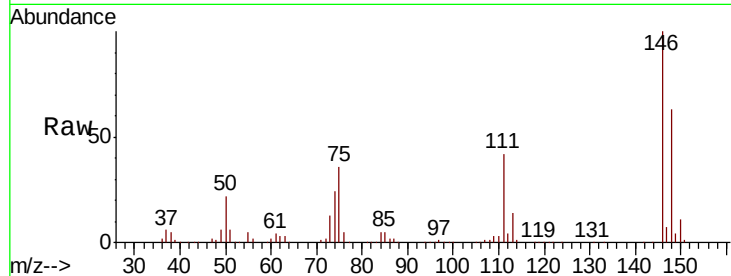




#62
 1,3-Dichlorobenzene
 Concen: 50.353 ug/L
 RT: 11.20 min Scan# 3144
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

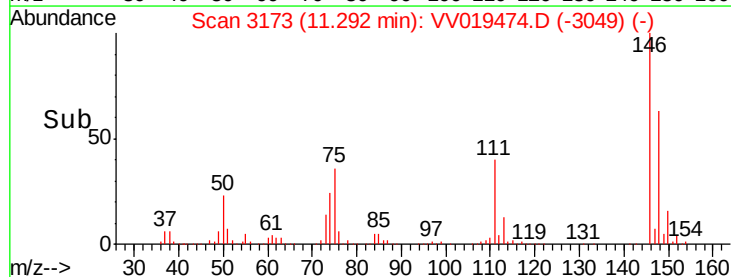
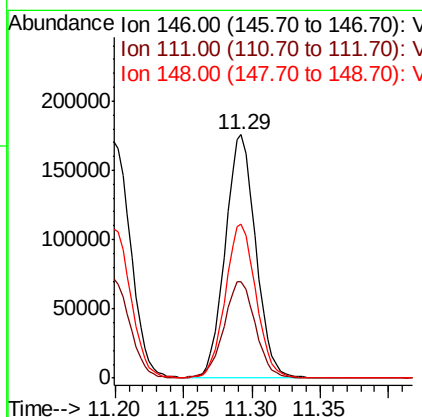
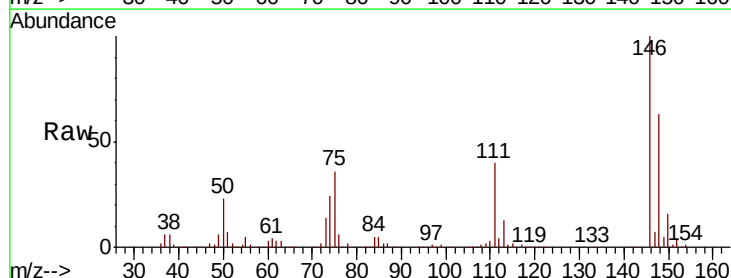
Instrument :
 MSVOA_V
 ClientSampleID :
 BFB61

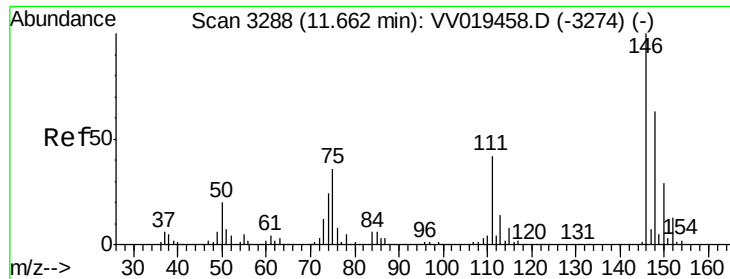
Tot Ion:146 Resp: 262754
 Ion Ratio Lower Upper
 146 100
 111 42.1 27.9 51.7
 148 63.0 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 49.804 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion:146 Resp: 273158
 Ion Ratio Lower Upper
 146 100
 111 39.7 26.7 49.7
 148 63.4 45.2 84.0

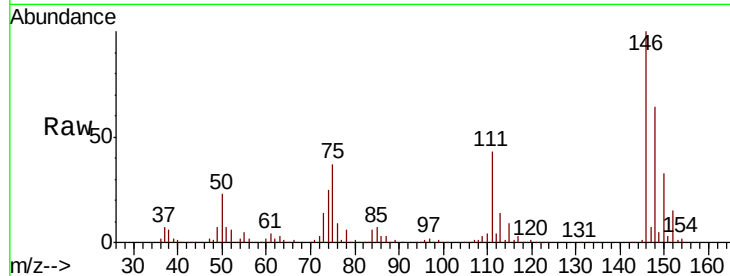




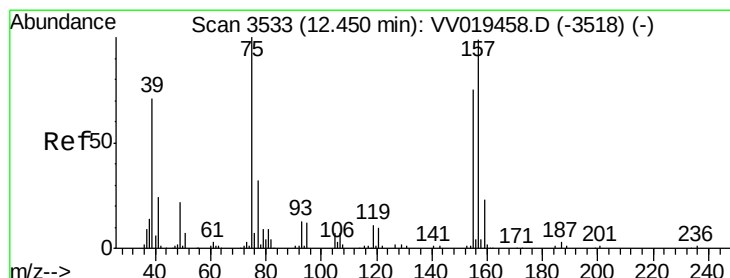
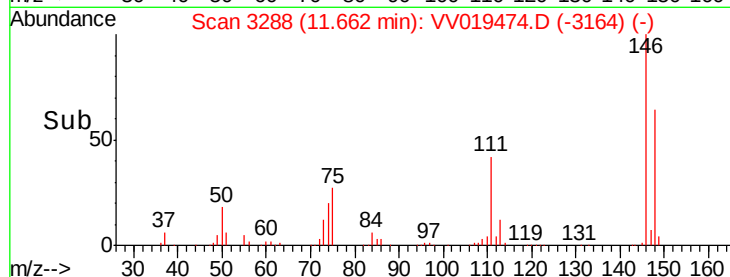
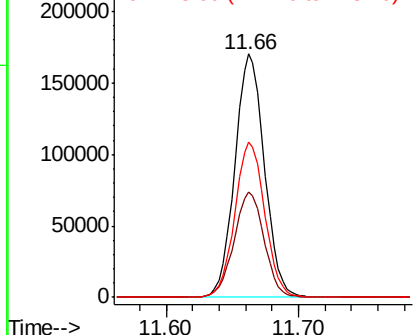
#65
 1,2-Dichlorobenzene
 Concen: 49.188 ug/L
 RT: 11.66 min Scan# 3288
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

Tot Ion:146 Resp: 263520
 Ion Ratio Lower Upper
 146 100
 111 43.3 33.8 50.8
 148 63.8 49.8 74.8

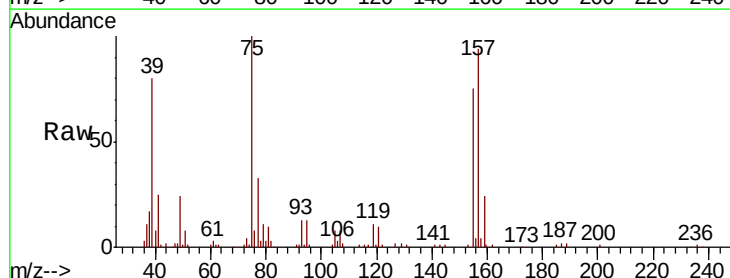


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

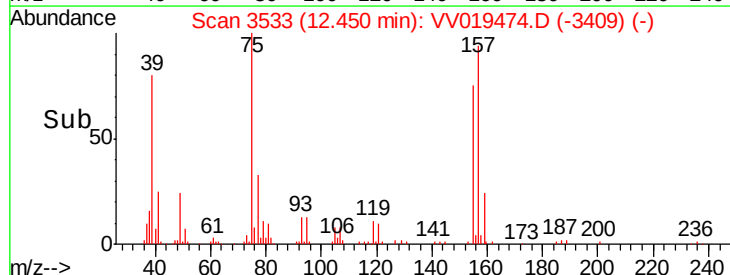
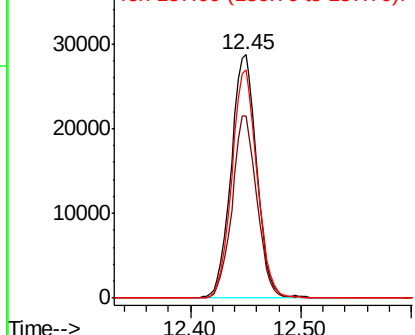


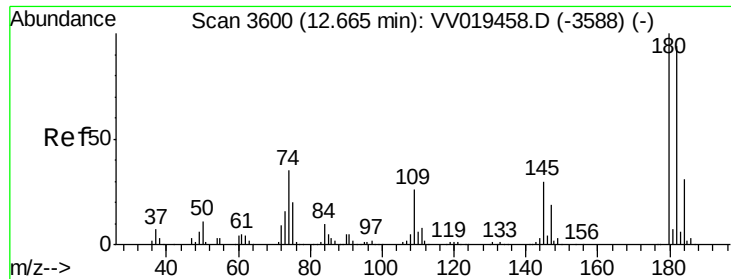
#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.908 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion: 75 Resp: 46267
 Ion Ratio Lower Upper
 75 100
 155 74.6 64.5 96.7
 157 93.6 84.2 126.2



Abundance Ion 75.00 (74.70 to 75.70): VV0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

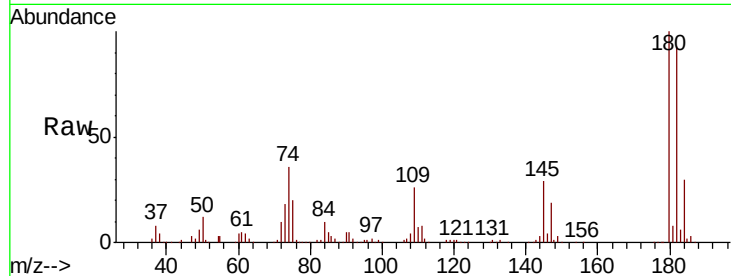




#67
 1,3,5-Trichlorobenzene
 Concen: 52.500 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB61

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	77.0	115.4
184	30.3	24.2	36.2
145	29.0	23.2	34.8



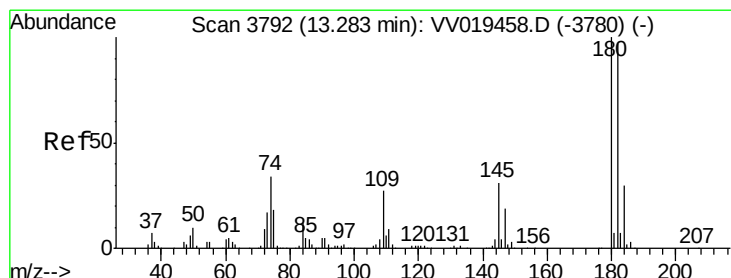
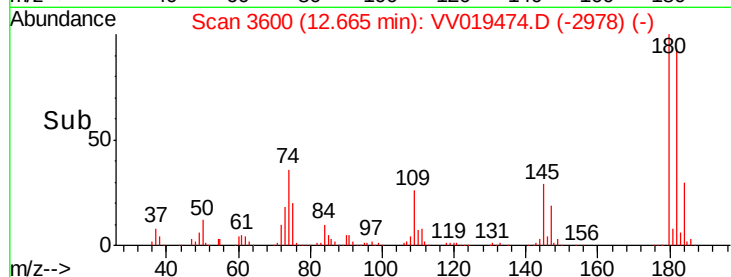
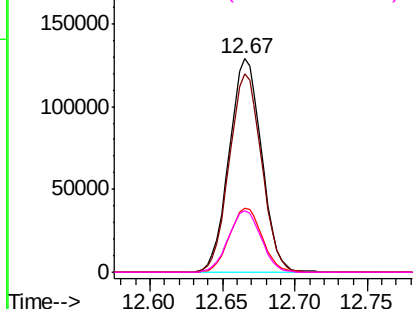
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

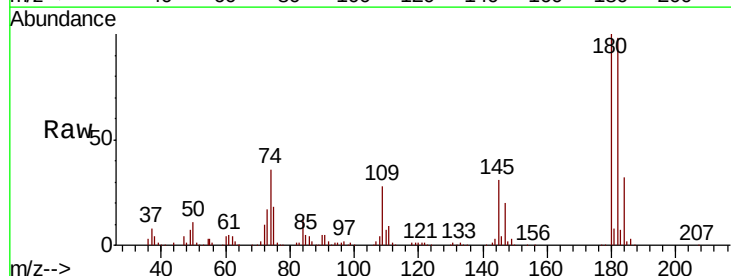
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.857 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV019474.D
 Acq: 04 Dec 2020 12:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.3	114.5
145	30.9	23.4	35.2

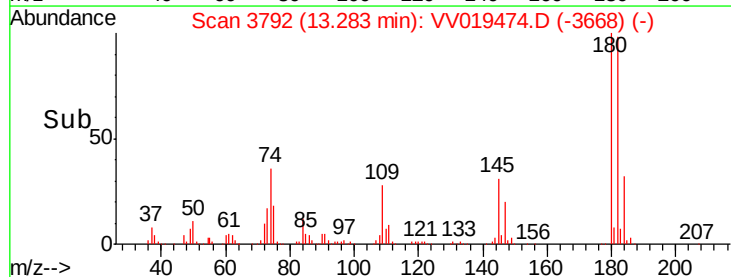
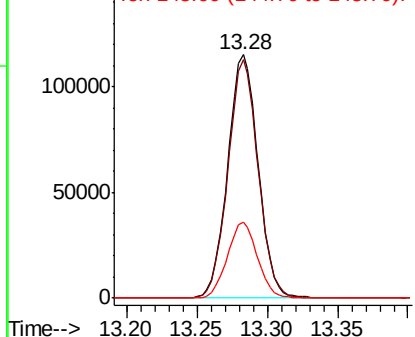


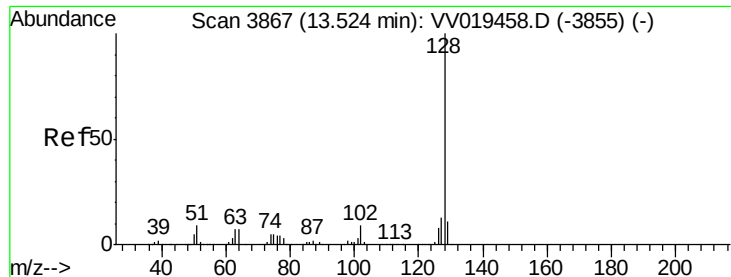
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.689 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

Instrument :

MSVOA_V

ClientSampleId :

BFB61

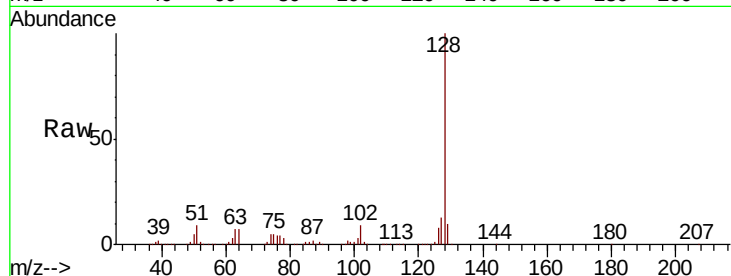
Tot Ion:128 Resp: 467691

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

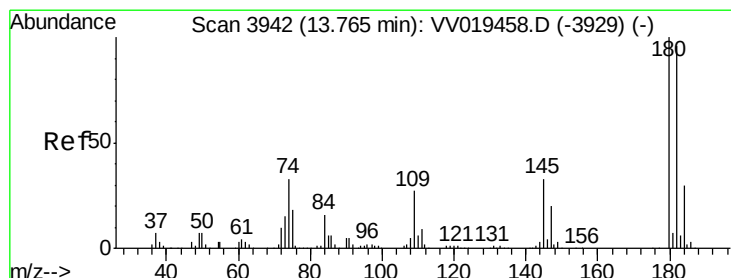
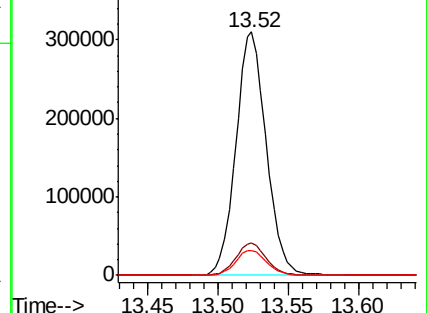
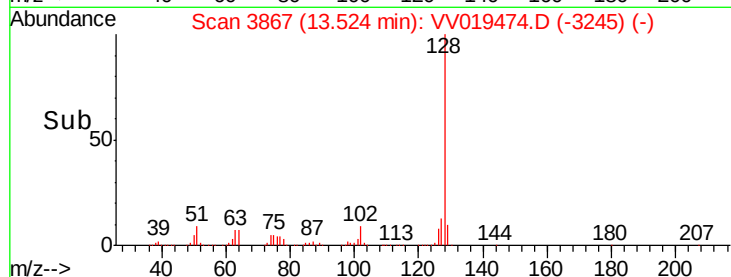
129 10.4 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.739 ug/L

RT: 13.76 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV019474.D

Acq: 04 Dec 2020 12:45

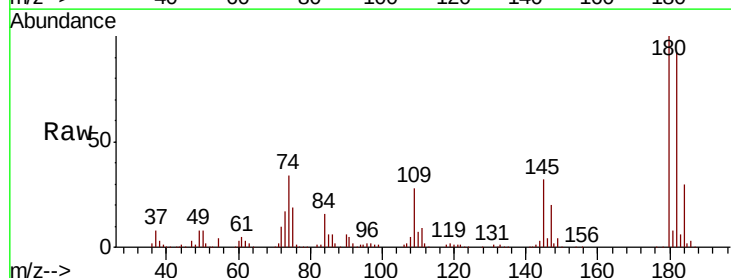
Tgt Ion:180 Resp: 181875

Ion Ratio Lower Upper

180 100

182 93.7 76.6 115.0

145 32.5 25.0 37.6



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

