

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101719\
 Data File : VV013181.D
 Acq On : 17 Oct 2019 19:54
 Operator : SY/MD
 Sample : VSTDICV005
 Misc : 25.00ML/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 18 03:41:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 03:32:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.68	114	514901	5.00	ug/L	0.02
28) Chlorobenzene-d5	8.91	117	540818	5.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	11.29	152	304071	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.34	65	265939	4.87	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.40%
7) Chloroethane-d5	1.60	69	196251	4.77	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.40%
11) 1,1-Dichloroethene-d2	2.15	63	366332	4.66	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.20%
20) 2-Butanone-d5	4.02	46	449823	41.96	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.92%
24) Chloroform-d	4.41	84	392338	4.09	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.80%
26) 1,2-Dichloroethane-d4	5.10	65	222927	4.90	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.10	84	919836	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
36) 1,2-Dichloropropane-d6	6.15	67	285535	4.98	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.39	98	851697	4.99	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	7.69	79	97865	4.72	ug/L	0.03
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.40%
46) 2-Hexanone-d5	8.15	63	439799	51.45	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.90%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	210869	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	295168	4.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.16	85	333018	5.099	ug/L 99
3) Chloromethane	1.27	50	346924	5.064	ug/L 100
5) Vinyl chloride	1.34	62	331844	4.998	ug/L 99
6) Bromomethane	1.56	94	191852	4.906	ug/L 97
8) Chloroethane	1.62	64	173384	4.965	ug/L 98
9) Trichlorofluoromethane	1.79	101	385698	4.661	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.15	101	219827	4.918	ug/L 99
12) 1,1-Dichloroethene	2.15	96	213958	5.060	ug/L 92
13) Acetone	2.27	43	263931	37.760	ug/L 88
14) Carbon disulfide	2.33	76	609592	4.000	ug/L 99
15) Methyl Acetate	2.50	43	75019	4.484	ug/L 97
16) Methylene chloride	2.56	84	228311	3.491	ug/L 91
17) Methyl tert-butyl Ether	2.84	73	475253	4.645	ug/L 99
18) trans-1,2-Dichloroethene	2.81	96	230999	4.276	ug/L 92
19) 1,1-Dichloroethane	3.24	63	396408	4.063	ug/L 99
21) 2-Butanone	4.10	43	493138	44.633	ug/L 100
22) cis-1,2-Dichloroethene	3.97	96	257012	4.637	ug/L # 89

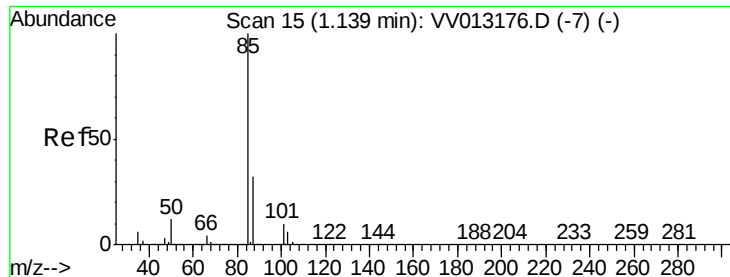
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101719\
 Data File : VV013181.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 03:32:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	109316	4.561	ug/L	82
25) Chloroform	4.44	83	420643	4.063	ug/L	99
27) 1,2-Dichloroethane	5.20	62	294110	5.196	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	368197	4.566	ug/L	96
30) Cyclohexane	4.72	56	367321	4.229	ug/L	91
31) Carbon tetrachloride	4.87	117	361669	4.968	ug/L	98
33) Benzene	5.15	78	1095795	5.095	ug/L	100
34) Trichloroethene	5.98	95	275550	4.977	ug/L	98
35) Methylcyclohexane	6.20	83	442935	5.010	ug/L	99
37) 1,2-Dichloropropane	6.25	63	265219	5.063	ug/L	100
38) Bromodichloromethane	6.60	83	330813	4.962	ug/L	98
39) cis-1,3-Dichloropropene	7.10	75	361311	5.035	ug/L	99
40) 4-Methyl-2-pentanone	7.31	43	1539539	53.066	ug/L	98
42) Toluene	7.46	91	1188025	5.308	ug/L	99
44) trans-1,3-Dichloropropene	7.71	75	271293	4.967	ug/L	99
45) 1,1,2-Trichloroethane	7.90	97	184202	5.070	ug/L	99
47) Tetrachloroethene	8.04	164	240572	4.880	ug/L	99
48) 2-Hexanone	8.20	43	1103767	52.375	ug/L	97
49) Dibromochloromethane	8.31	129	217078	4.962	ug/L	100
50) 1,2-Dibromoethane	8.41	107	166830	4.962	ug/L	98
51) Chlorobenzene	8.94	112	728435	5.084	ug/L	98
52) Ethylbenzene	9.06	91	1221447	5.135	ug/L	99
53) m,p-xylene	9.19	106	467056	5.200	ug/L	99
54) o-xylene	9.59	106	448097	5.157	ug/L	95
55) Styrene	9.61	104	776979	5.397	ug/L	97
56) Isopropylbenzene	9.98	105	1191189	5.221	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	217027	4.861	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	154343	4.961	ug/L	99
61) Bromoform	9.78	173	121684	4.993	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	565464	5.072	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	556981	5.047	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	521356	5.029	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	30632	4.501	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	377510	4.799	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	313463	4.648	ug/L	100
69) Naphthalene	13.55	128	471332	4.792	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	307718	4.785	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.099 ug/L

RT: 1.16 min Scan# 21

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

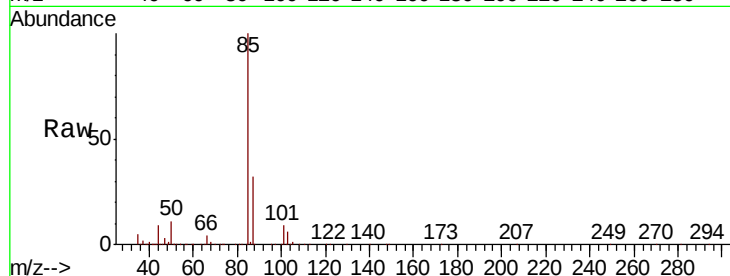
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 333018

Ion Ratio Lower Upper

85 100

87 32.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV013176.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV013176.D (-7) (-)

1.16

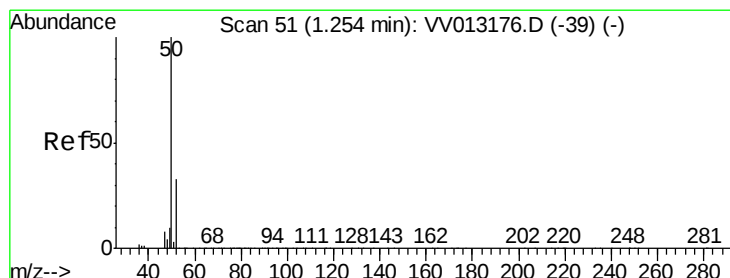
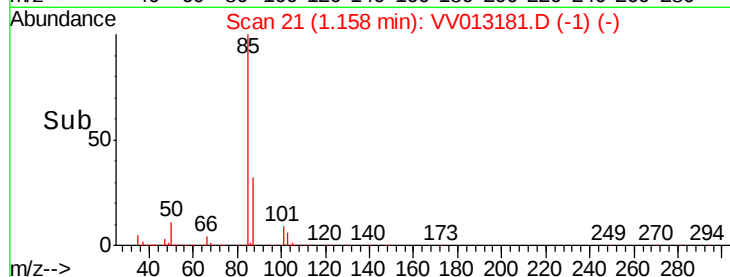
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 5.064 ug/L

RT: 1.27 min Scan# 56

Delta R.T. 0.02 min

Lab File: VV013181.D

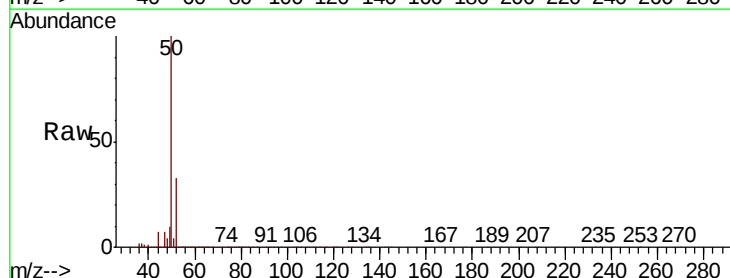
Acq: 17 Oct 2019 19:54

Tgt Ion: 50 Resp: 346924

Ion Ratio Lower Upper

50 100

52 32.7 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VV013176.D (-39) (-)

Ion 52.05 (51.75 to 52.75): VV013176.D (-39) (-)

1.27

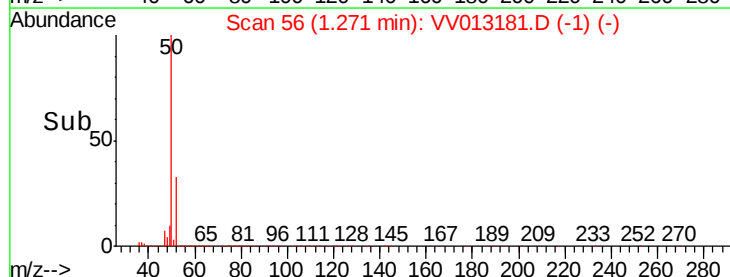
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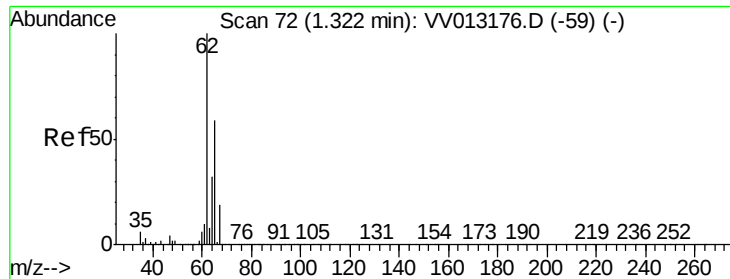
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 4.998 ug/L

RT: 1.34 min Scan# 78

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

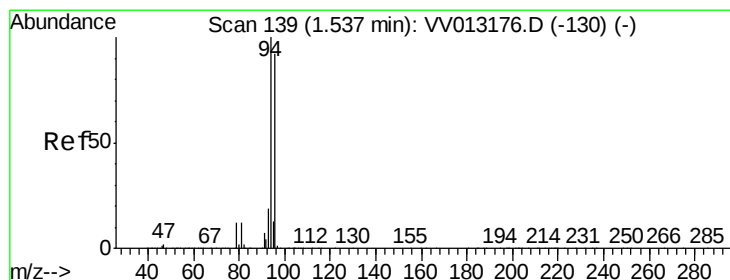
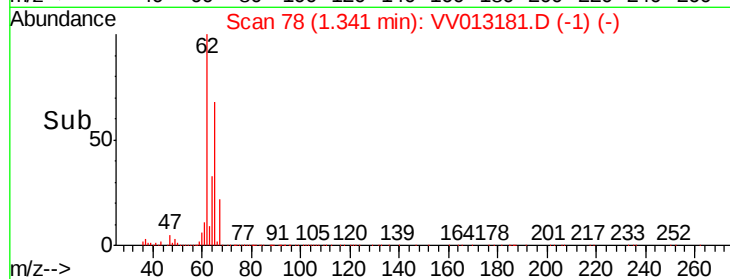
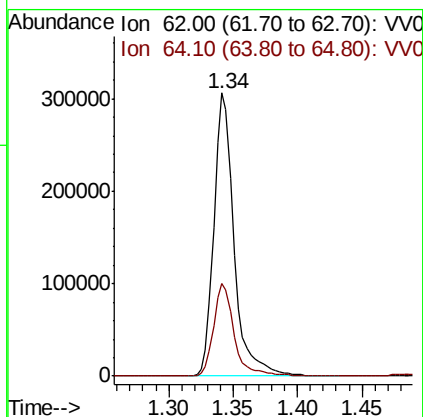
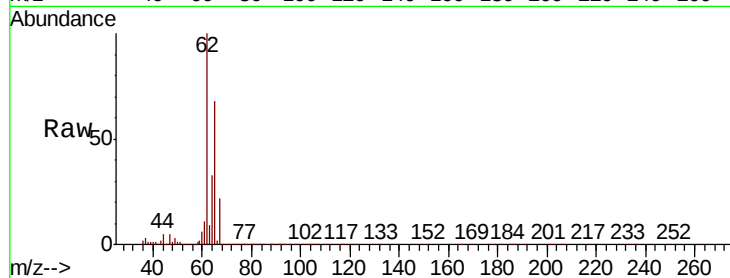
ClientSampleId :

Tot Ion: 62 Resp: 331844

Ion Ratio Lower Upper

62 100

64 33.0 22.7 42.3



#6

Bromomethane

Concen: 4.906 ug/L

RT: 1.56 min Scan# 145

Delta R.T. 0.02 min

Lab File: VV013181.D

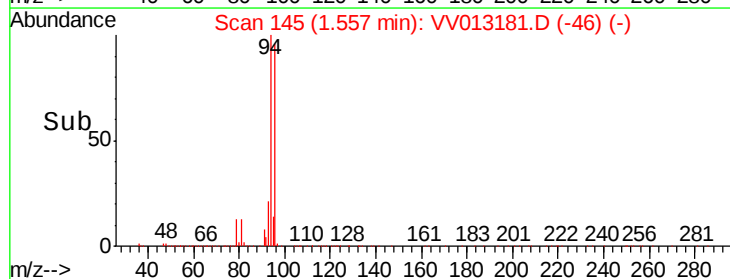
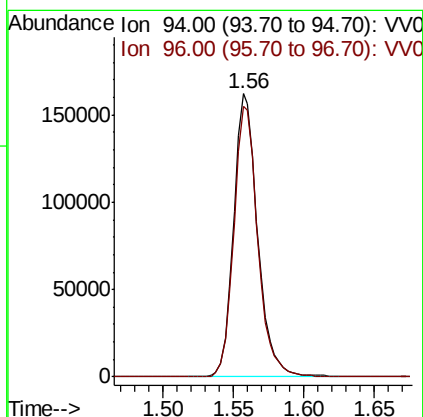
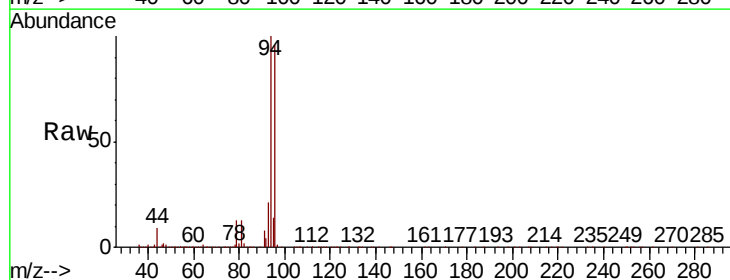
Acq: 17 Oct 2019 19:54

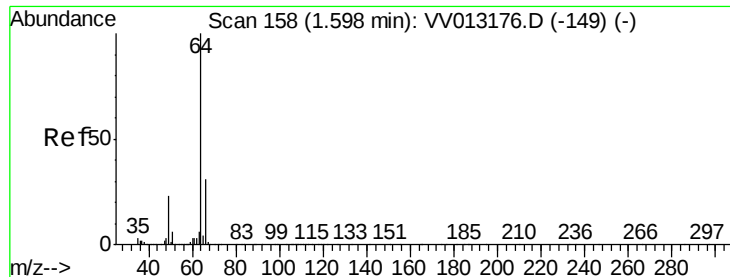
Tgt Ion: 94 Resp: 191852

Ion Ratio Lower Upper

94 100

96 95.6 64.6 120.0





#8

Chloroethane

Concen: 4.965 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

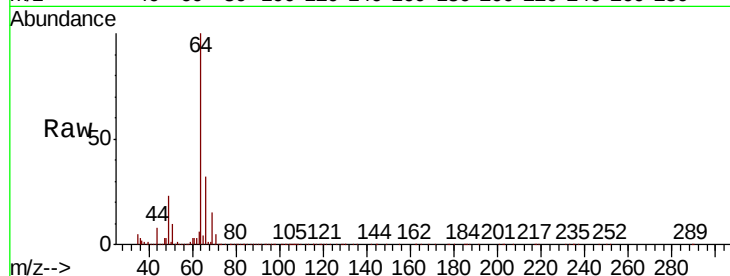
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 173384

Ion Ratio Lower Upper

64 100

66 32.1 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV013176.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV013176.D (-149) (-)

1.62

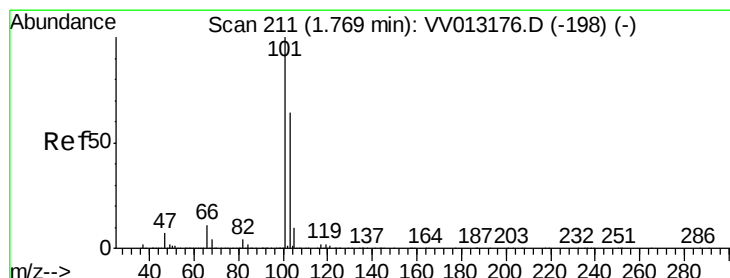
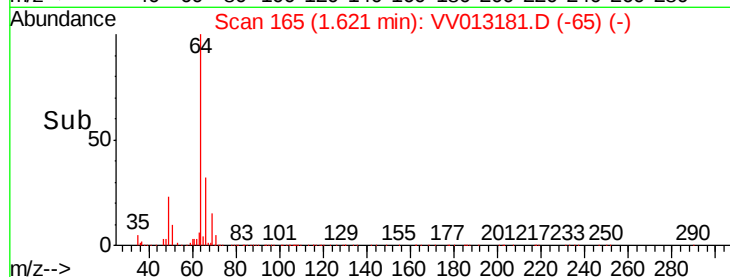
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 4.661 ug/L

RT: 1.79 min Scan# 217

Delta R.T. 0.02 min

Lab File: VV013181.D

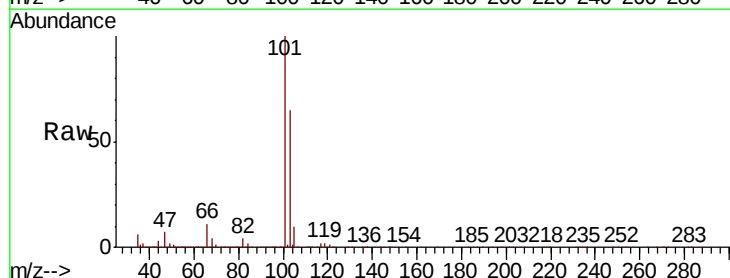
Acq: 17 Oct 2019 19:54

Tgt Ion: 101 Resp: 385698

Ion Ratio Lower Upper

101 100

103 65.1 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): VV013176.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV013176.D (-198) (-)

1.79

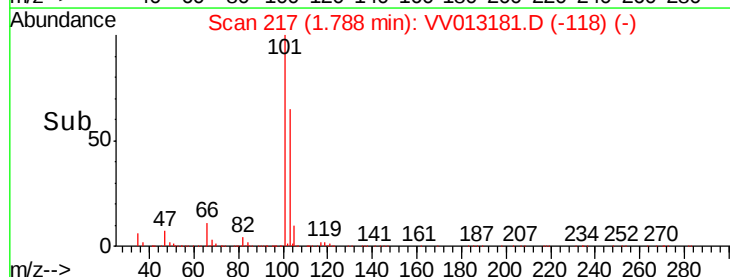
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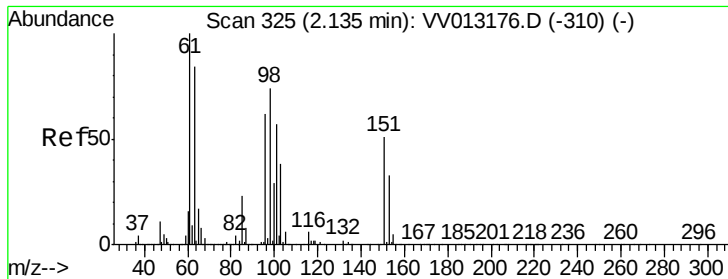
200000

100000

0

Time-->





#10

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

Concen: 4.918 ug/L

RT: 2.15 min Scan# 331

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

ClientSampleId :

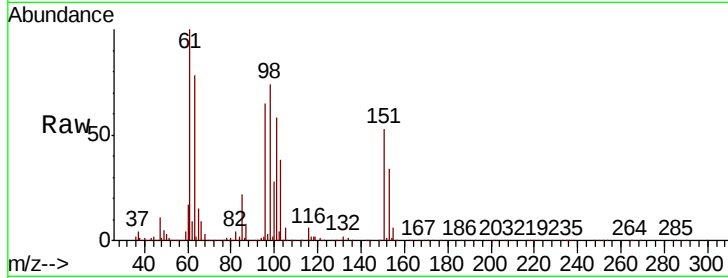
Tot Ion:101 Resp: 219827

Ion Ratio Lower Upper

101 100

85 38.5 32.4 48.6

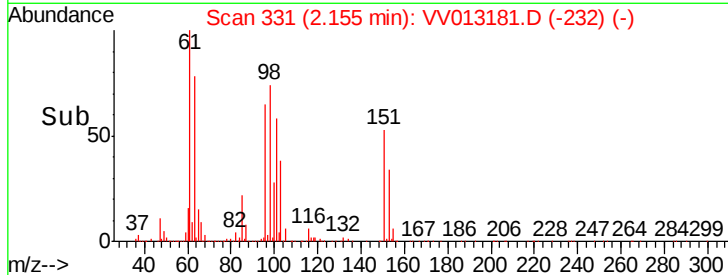
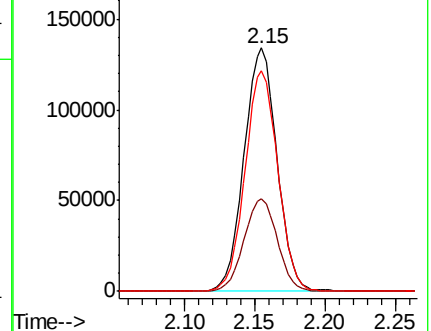
151 90.5 71.9 107.9



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: 5.060 ug/L

RT: 2.15 min Scan# 331

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

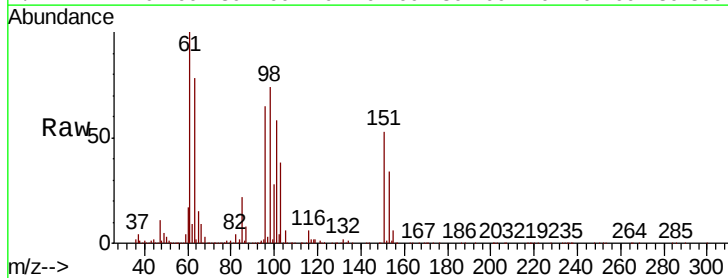
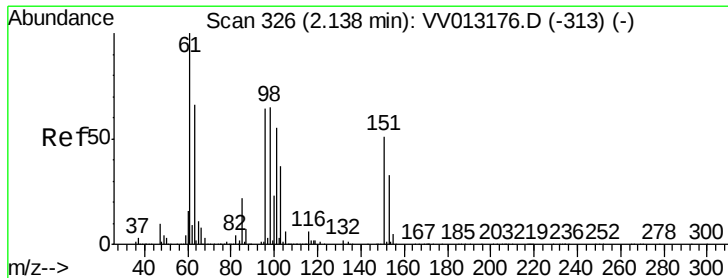
Tgt Ion: 96 Resp: 213958

Ion Ratio Lower Upper

96 100

61 153.0 109.8 204.0

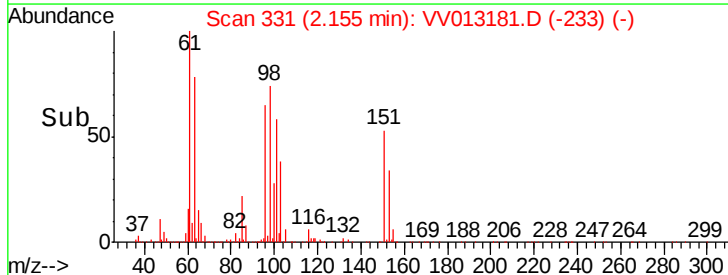
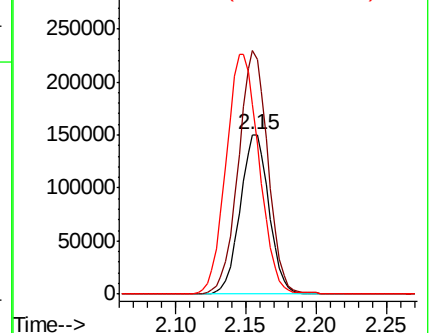
63 119.4 72.6 134.8

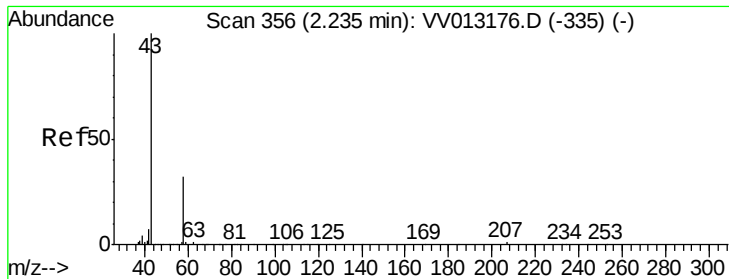


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

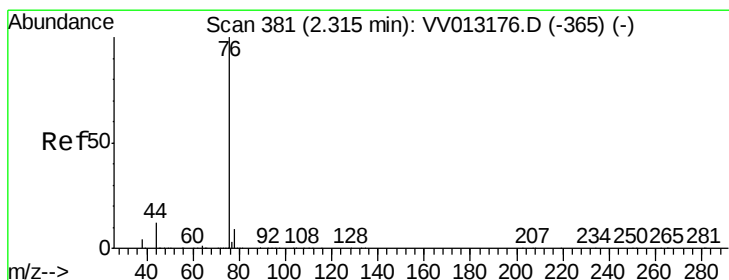
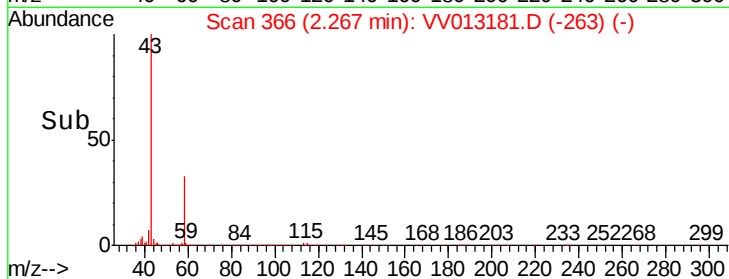
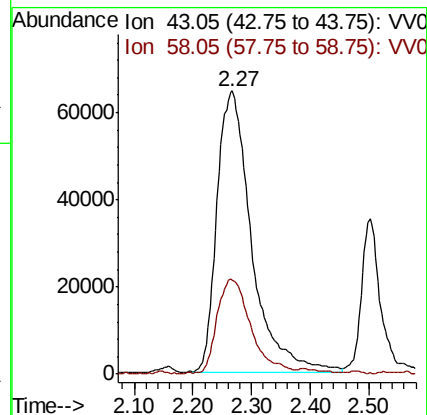
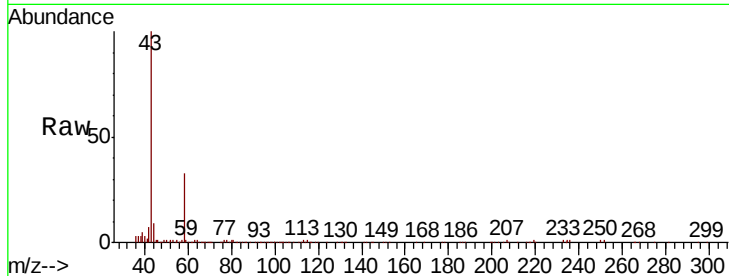




#13
Acetone
Concen: 37.760 ug/L
RT: 2.27 min Scan# 366
Delta R.T. 0.03 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

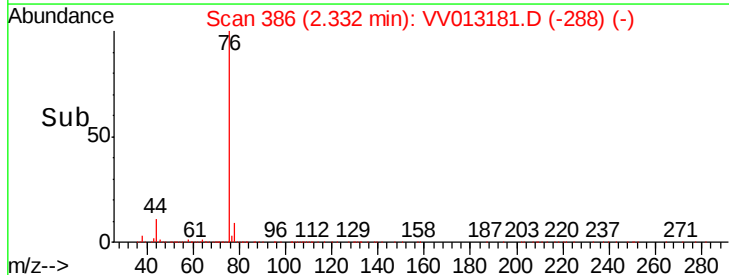
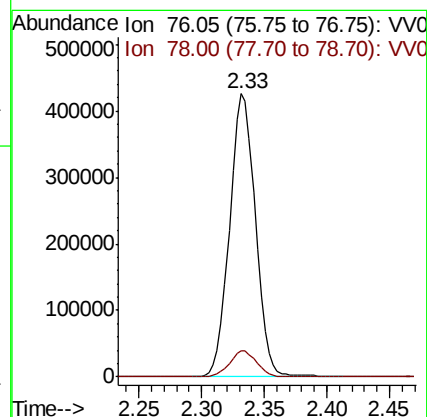
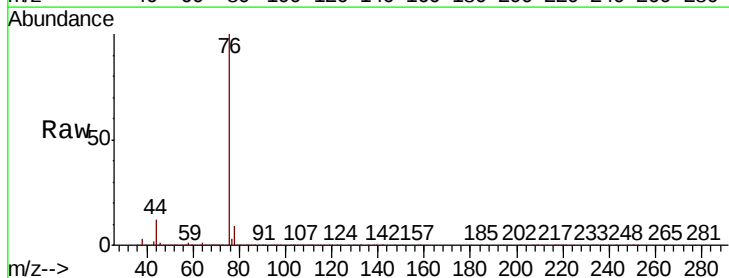
Instrument :
MSVOA_V
ClientSampleId :

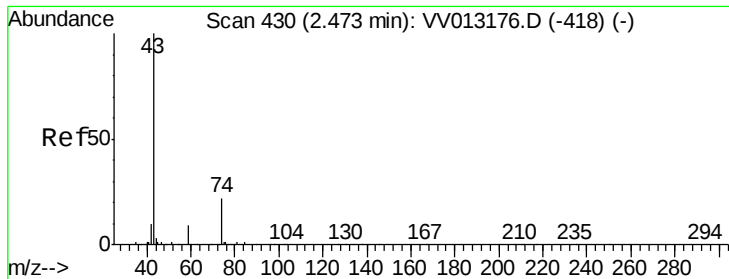
Tot Ion: 43 Resp: 263931
Ion Ratio Lower Upper
43 100
58 32.3 0.0 52.4



#14
Carbon disulfide
Concen: 4.000 ug/L
RT: 2.33 min Scan# 386
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion: 76 Resp: 609592
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

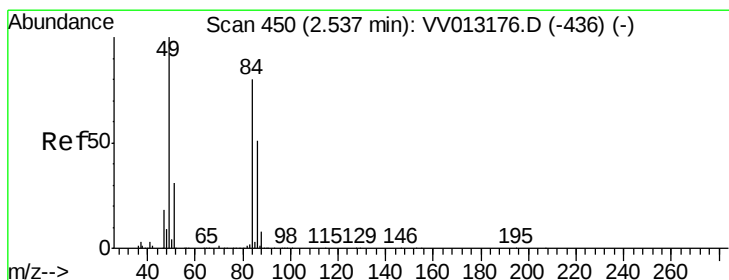
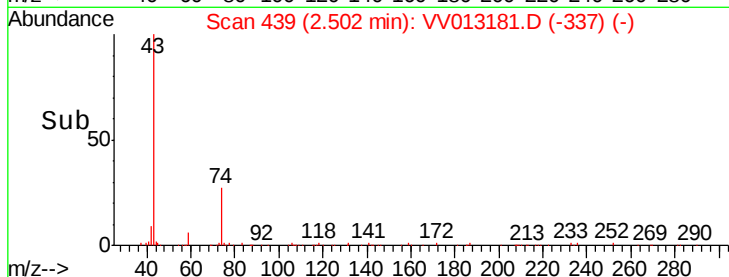
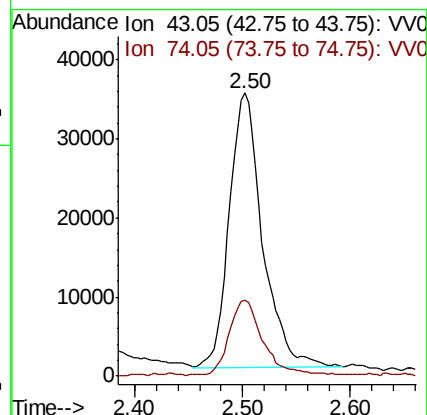
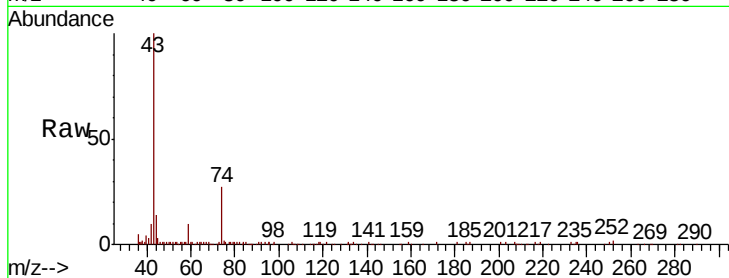




#15
Methyl Acetate
Concen: 4.484 ug/L
RT: 2.50 min Scan# 439
Delta R.T. 0.03 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

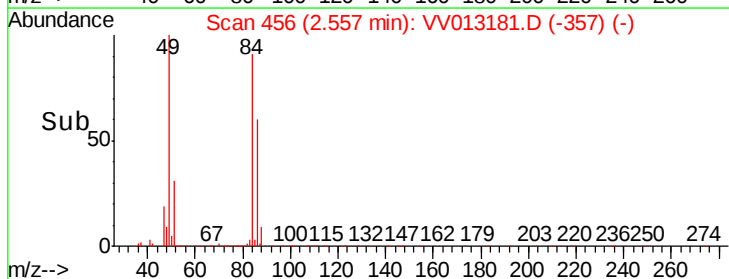
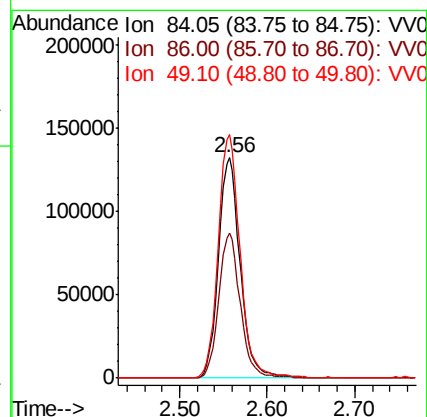
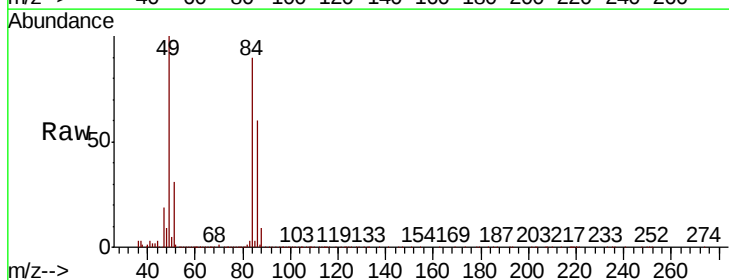
Instrument :
MSVOA_V
ClientSampled :

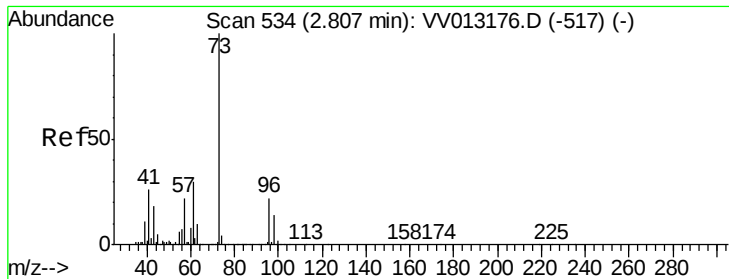
Tot Ion: 43 Resp: 75019
Ion Ratio Lower Upper
43 100
74 27.5 20.7 31.1



#16
Methylene chloride
Concen: 3.491 ug/L
RT: 2.56 min Scan# 456
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion: 84 Resp: 228311
Ion Ratio Lower Upper
84 100
86 66.0 44.5 82.7
49 110.6 87.3 162.1

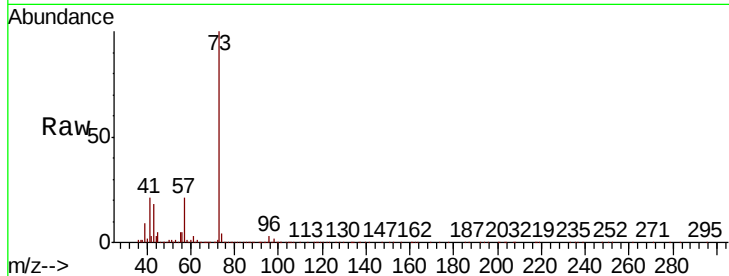




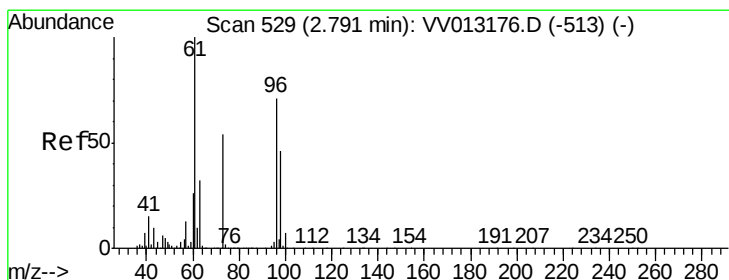
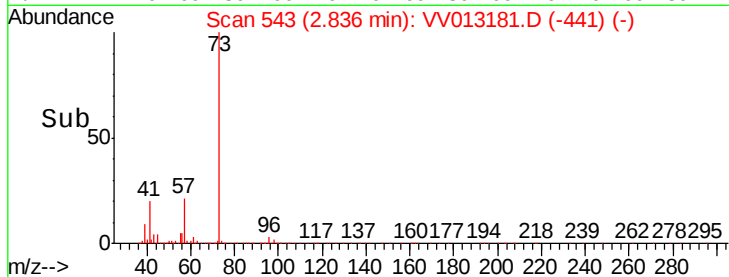
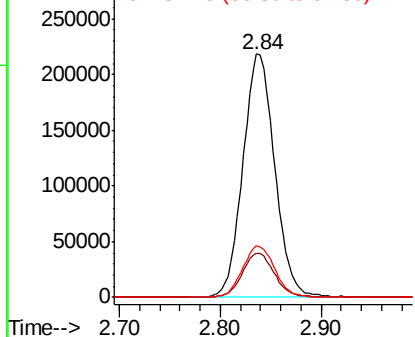
#17
Methvl tert-butvl Ether
Concen: 4.645 ug/L
RT: 2.84 min Scan# 543
Delta R.T. 0.03 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 73 Resp: 475253
Ion Ratio Lower Upper
73 100
43 18.0 14.6 22.0
57 21.3 17.8 26.8

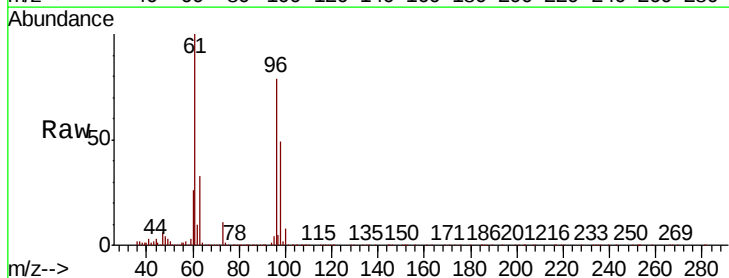


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

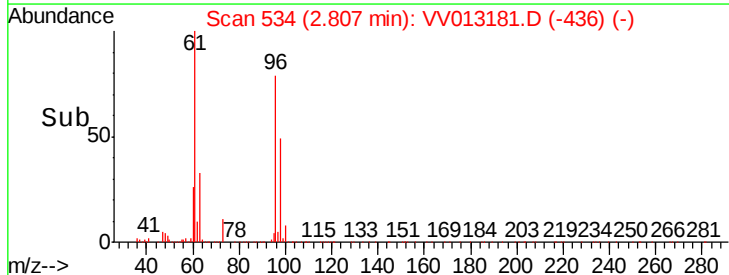
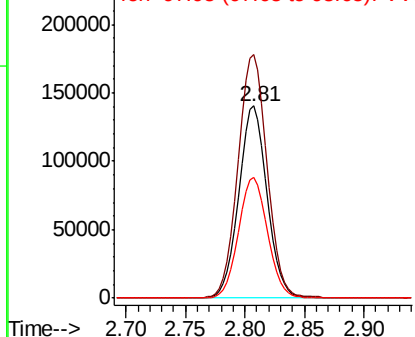


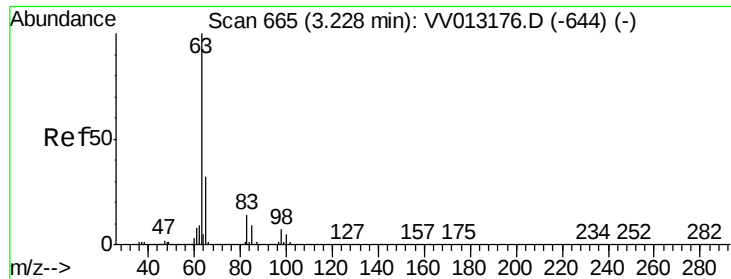
#18
trans-1,2-Dichloroethene
Concen: 4.276 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion: 96 Resp: 230999
Ion Ratio Lower Upper
96 100
61 126.7 98.1 182.1
98 62.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

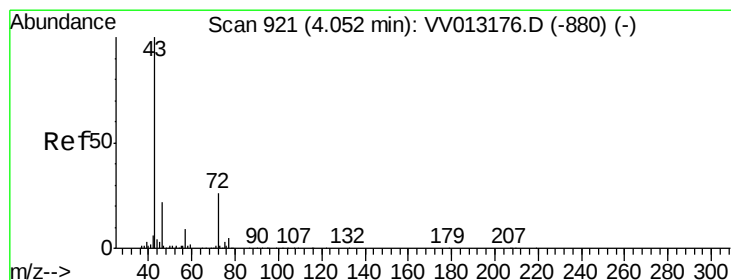
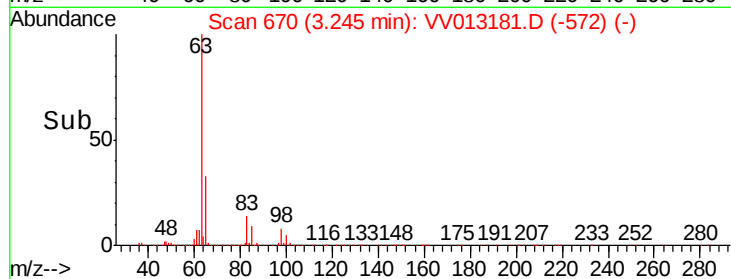
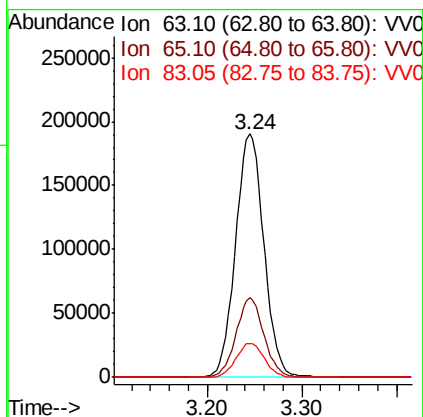
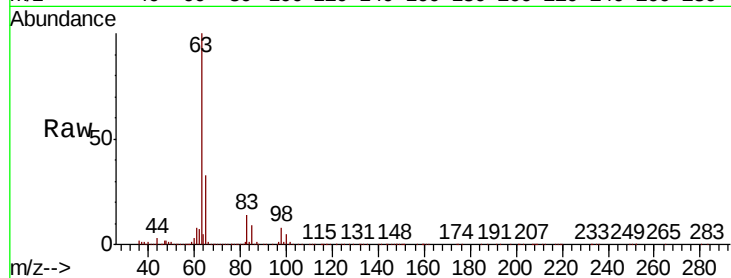




#19
1,1-Dichloroethane
Concen: 4.063 ug/L
RT: 3.24 min Scan# 670
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

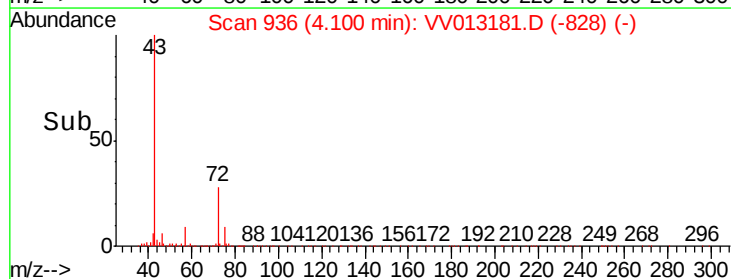
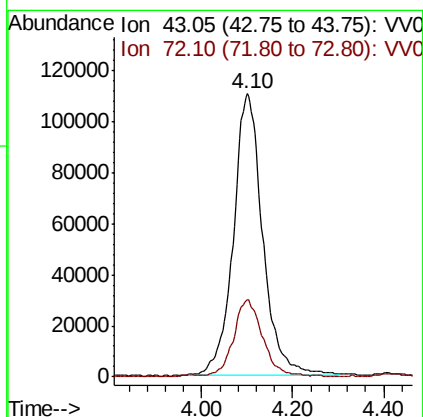
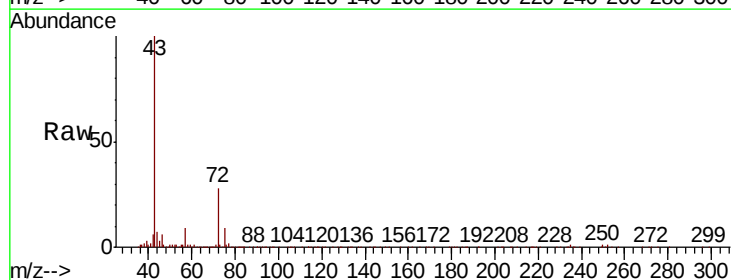
Instrument :
MSVOA_V
ClientSampleId :

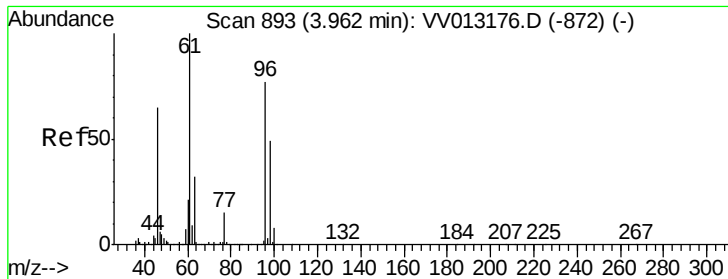
Tot Ion	Ratio	Lower	Upper
63	100		
65	32.6	22.5	41.7
83	14.1	9.5	17.7



#21
2-Butanone
Concen: 44.633 ug/L
RT: 4.10 min Scan# 936
Delta R.T. 0.05 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.3	13.1	39.1



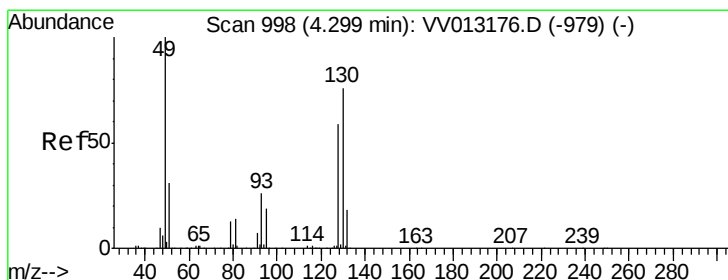
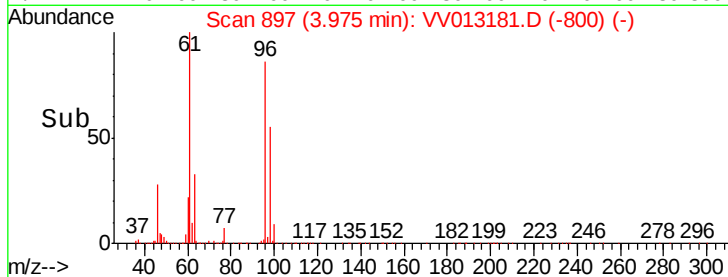
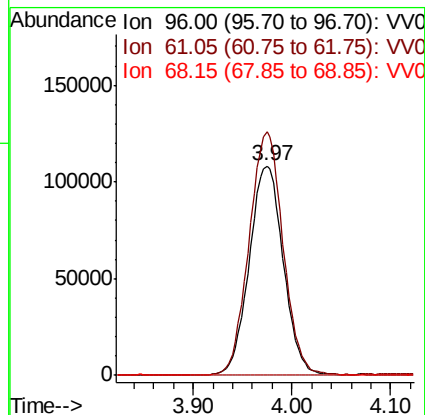
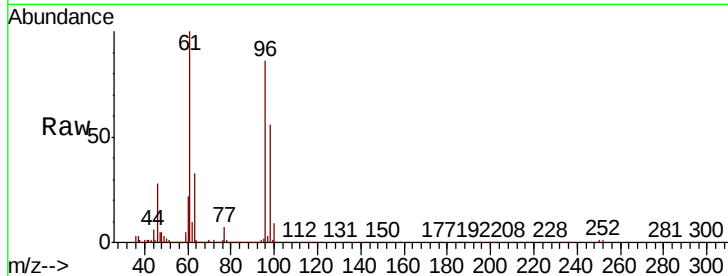


#22

cis-1,2-Dichloroethene
 Concen: 4.637 ug/L
 RT: 3.97 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Instrument :
 MSVOA_V
 ClientSampleId :

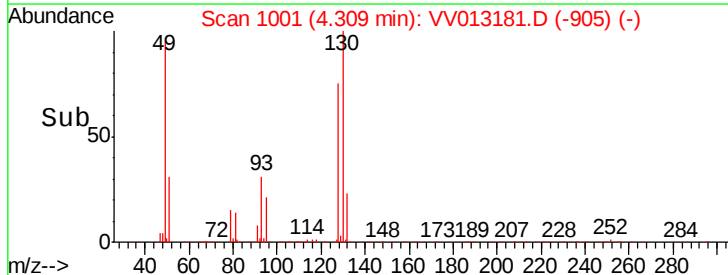
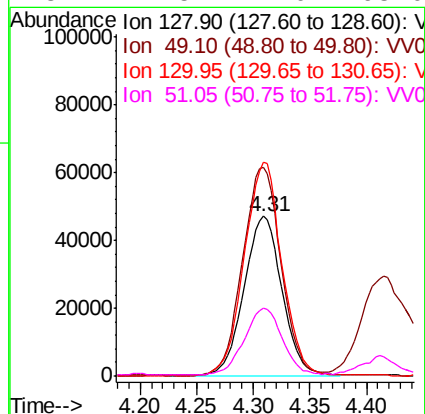
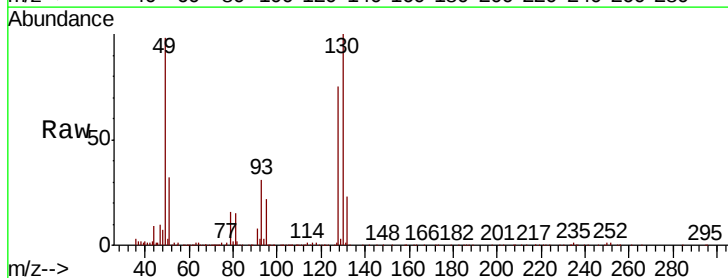
Tot Ion	Ratio	Lower	Upper
96	100		
61	116.3	90.6	168.2
68	0.3	0.1	0.1#

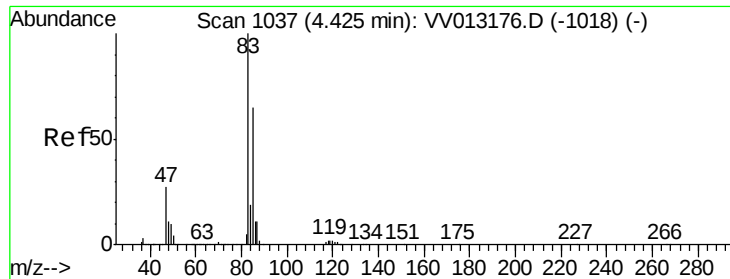


#23

Bromochloromethane
 Concen: 4.561 ug/L
 RT: 4.31 min Scan# 1001
 Delta R.T. 0.01 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
128	100		
49	130.4	118.4	219.8
130	133.7	89.5	166.3
51	42.5	42.0	63.0

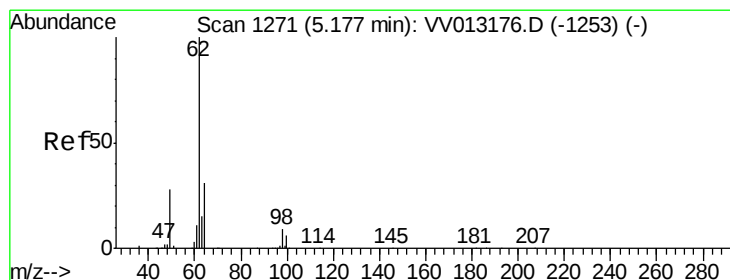
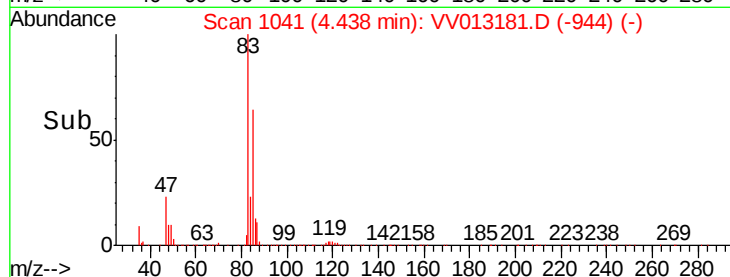
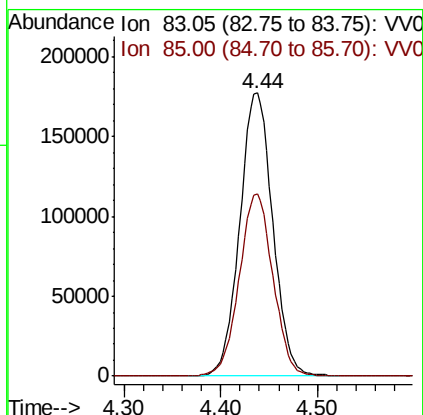
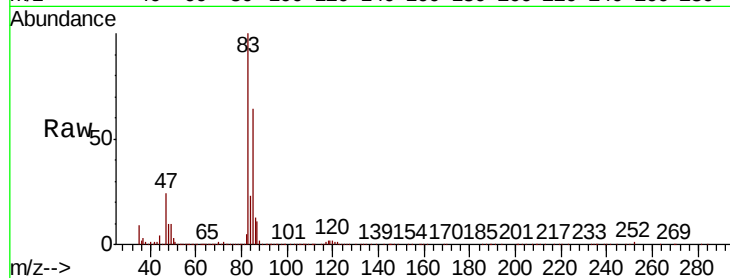




#25
Chloroform
Concen: 4.063 ug/L
RT: 4.44 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

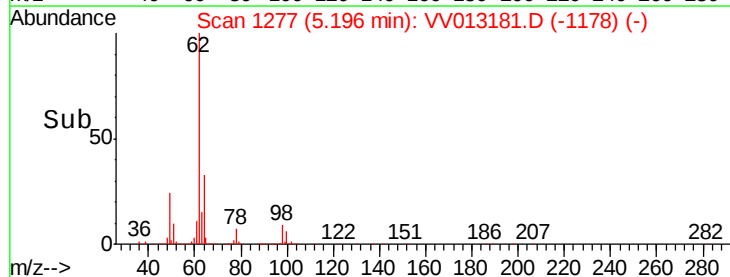
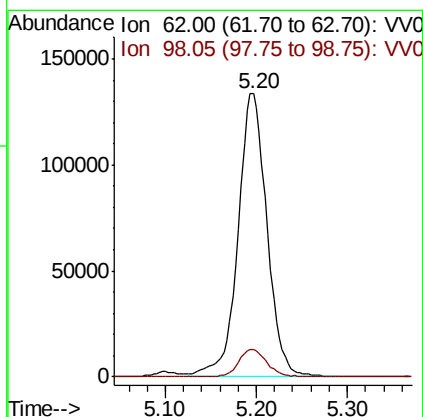
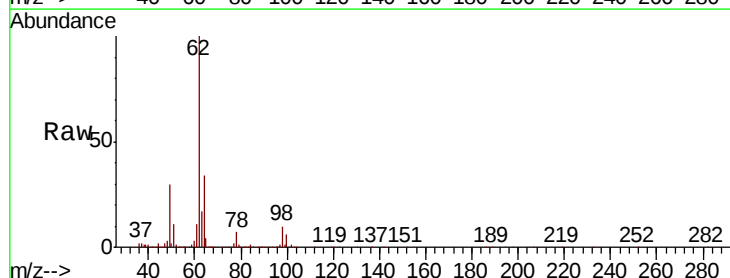
Instrument :
MSVOA_V
ClientSampleId :

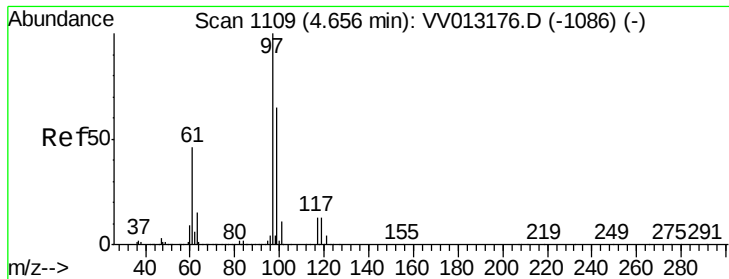
Tot Ion: 83 Resp: 420643
Ion Ratio Lower Upper
83 100
85 64.4 45.5 84.5



#27
1,2-Dichloroethane
Concen: 5.196 ug/L
RT: 5.20 min Scan# 1277
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion: 62 Resp: 294110
Ion Ratio Lower Upper
62 100
98 9.6 7.4 11.2

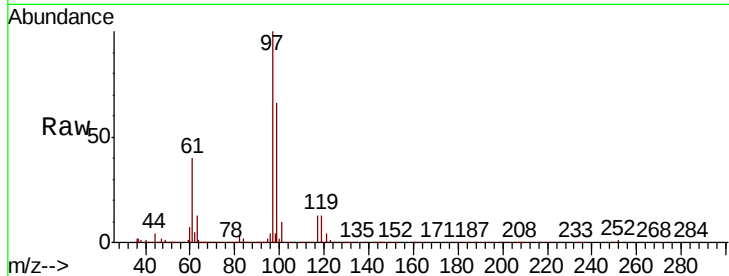




#29
 1,1,1-Trichloroethane
 Concen: 4.566 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.2	76.8
61	39.8	37.0	55.4

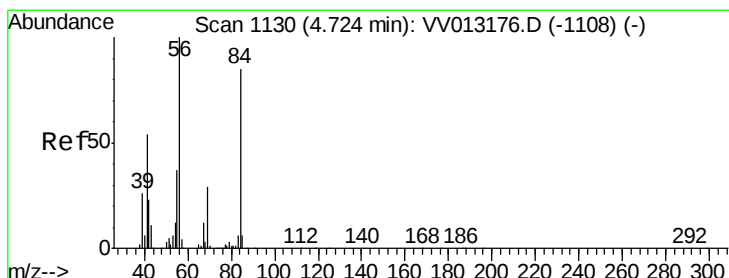
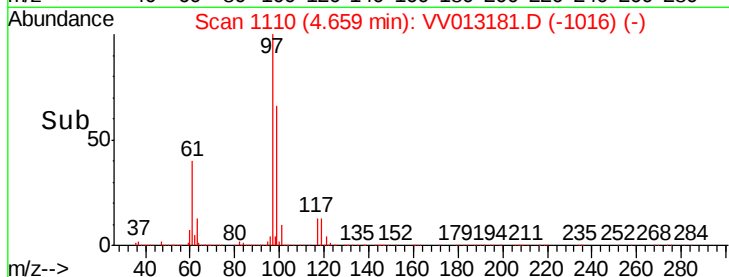
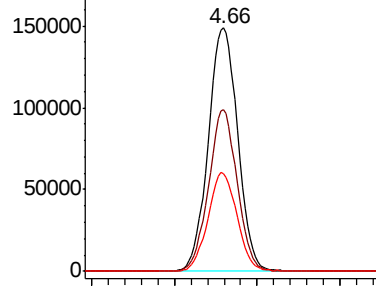


Abundance

Ion 96.95 (96.65 to 97.65): VV0

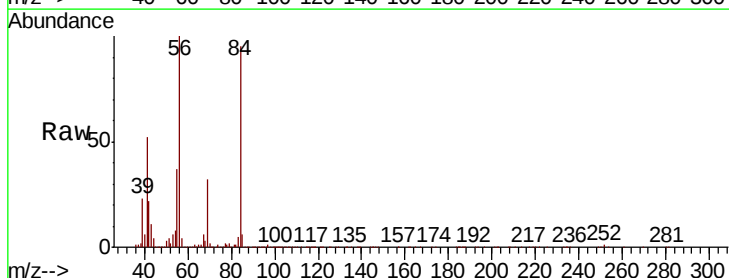
Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30
 Cyclohexane
 Concen: 4.229 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. -0.01 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.8	23.0	34.4
84	96.0	69.0	103.4

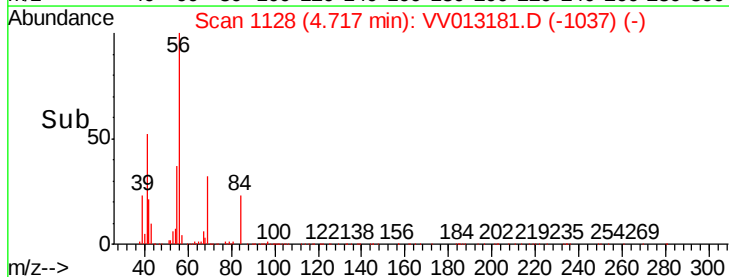
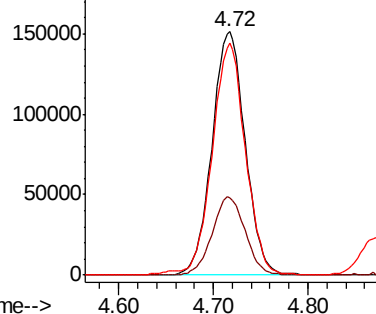


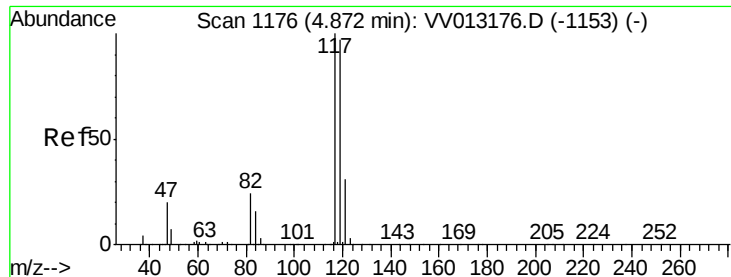
Abundance

Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.968 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

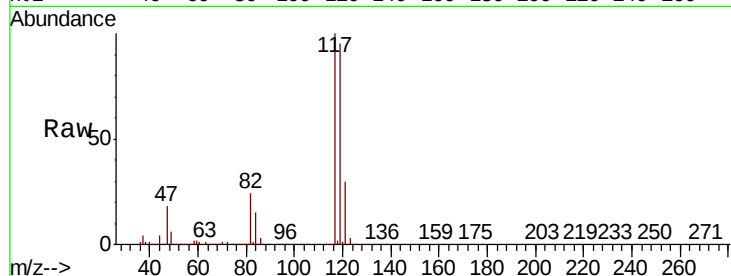
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 361669

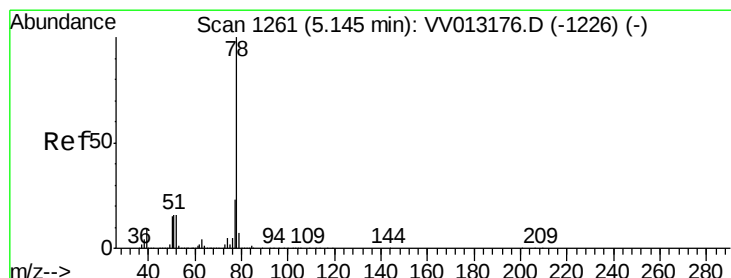
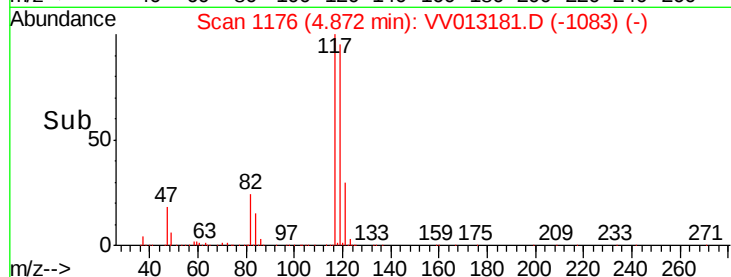
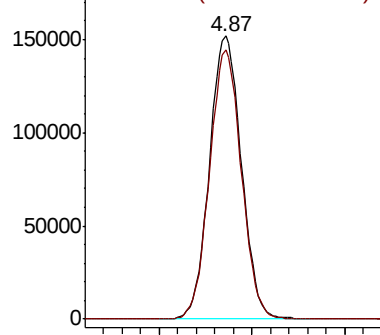
Ion Ratio Lower Upper

117 100

119 95.1 77.9 116.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.095 ug/L

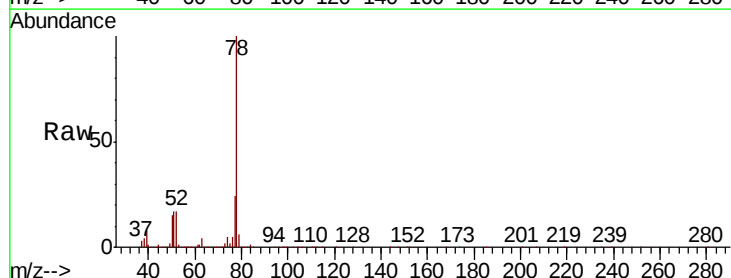
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

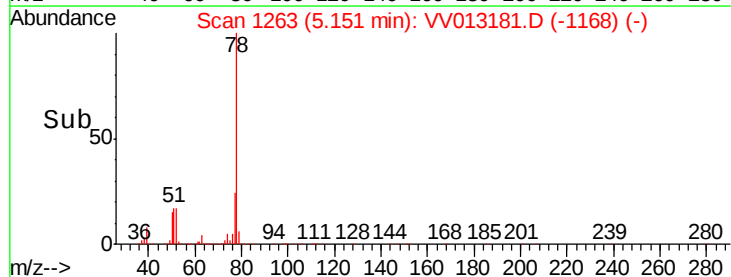
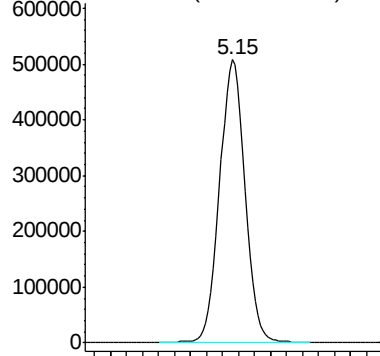
Lab File: VV013181.D

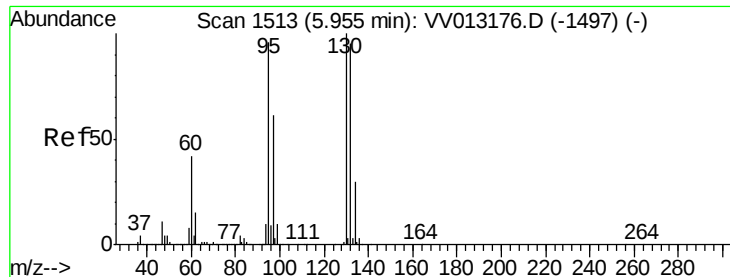
Acq: 17 Oct 2019 19:54

Tgt Ion: 78 Resp: 1095795



Abundance Ion 78.10 (77.80 to 78.80): VV0

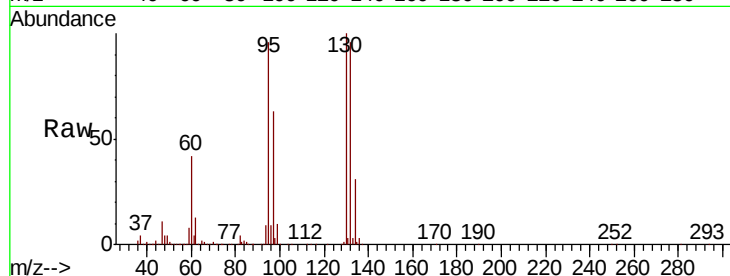




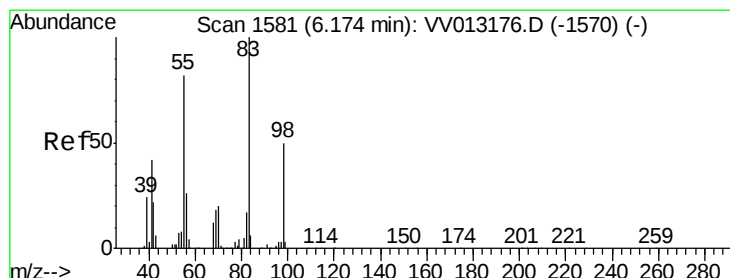
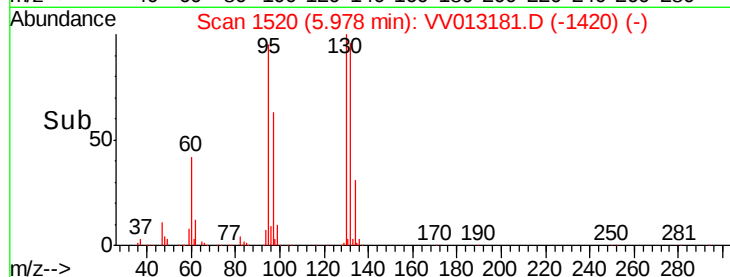
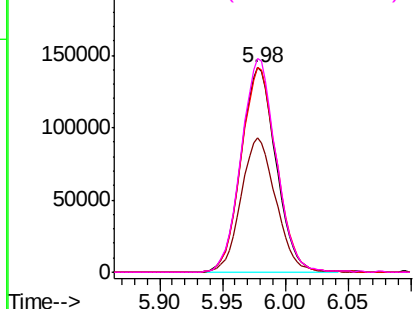
#34
 Trichloroethene
 Concen: 4.977 ug/L
 RT: 5.98 min Scan# 1520
 Delta R.T. 0.02 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 275550
 Ion Ratio Lower Upper
 95 100
 97 65.8 44.7 82.9
 132 100.1 68.9 127.9
 130 104.5 72.7 134.9

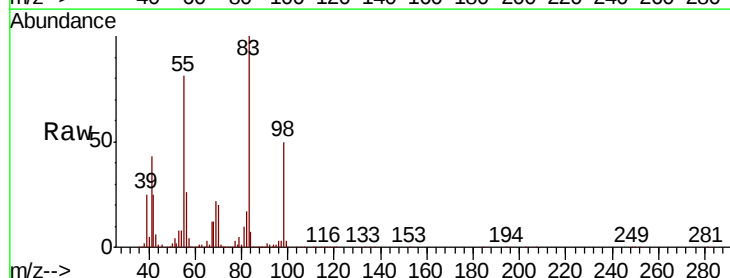


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

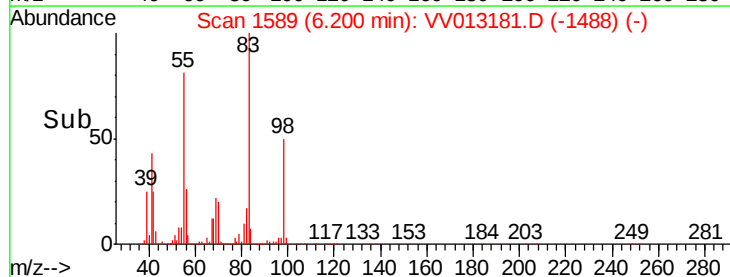
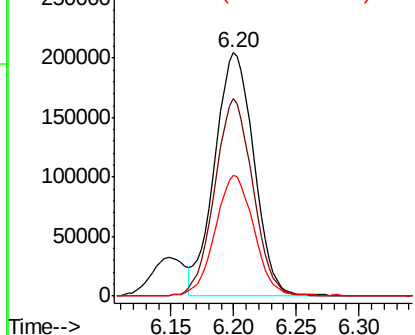


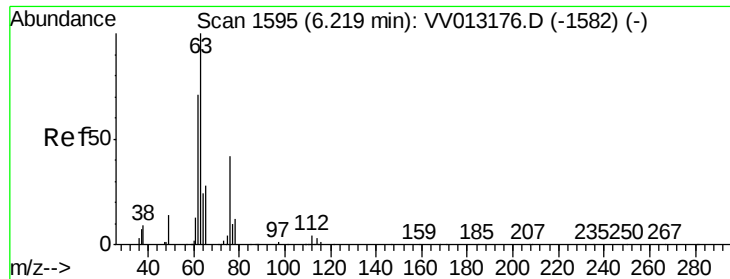
#35
 Methylcyclohexane
 Concen: 5.010 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.03 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion: 83 Resp: 442935
 Ion Ratio Lower Upper
 83 100
 55 78.8 64.0 96.0
 98 49.3 38.6 57.8



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 5.063 ug/L

RT: 6.25 min Scan# 1606

Delta R.T. 0.04 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

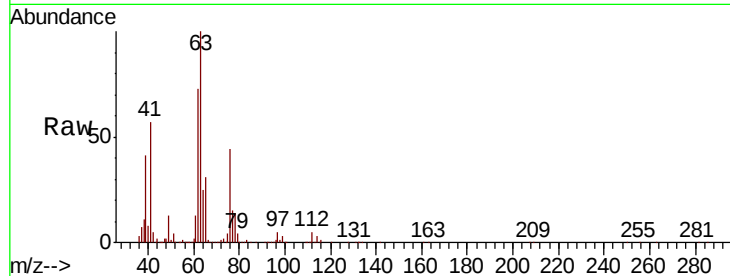
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 265219

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8



Abundance Ion 63.10 (62.80 to 63.80): VV013181.D (-1606) (-)

Ion 112.10 (111.80 to 112.80): VV013181.D (-1606) (-)

6.25

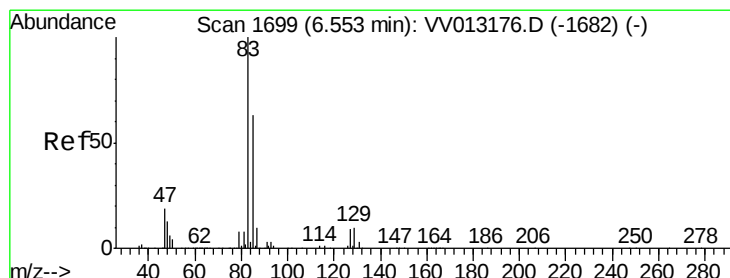
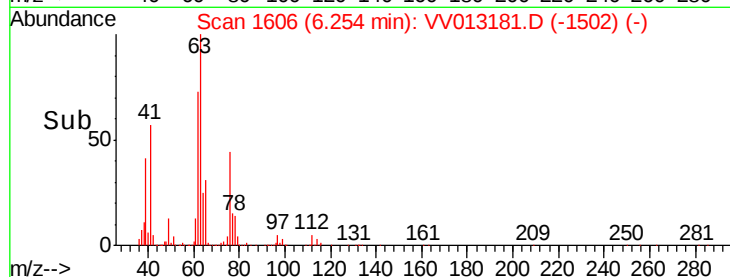
150000

100000

50000

0

Time--> 6.15 6.20 6.25 6.30 6.35



#38

Bromodichloromethane

Concen: 4.962 ug/L

RT: 6.60 min Scan# 1712

Delta R.T. 0.04 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

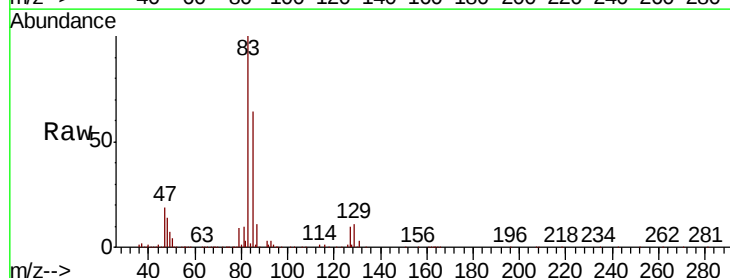
Tgt Ion: 83 Resp: 330813

Ion Ratio Lower Upper

83 100

85 64.2 44.0 81.6

127 9.7 7.0 10.6



Abundance Ion 82.95 (82.65 to 83.65): VV013181.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VV013181.D (-1606) (-)

Ion 126.90 (126.60 to 127.60): VV013181.D (-1606) (-)

6.60

200000

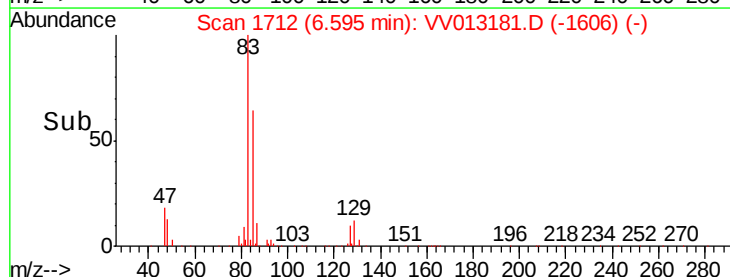
150000

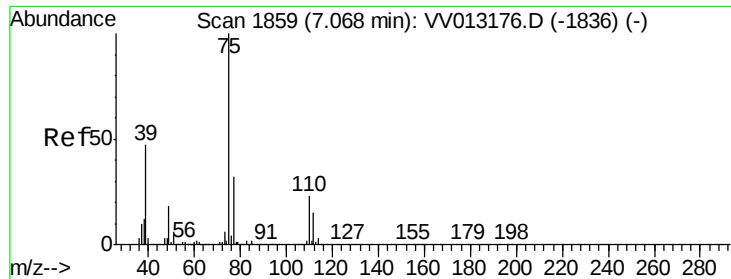
100000

50000

0

Time--> 6.50 6.60 6.70



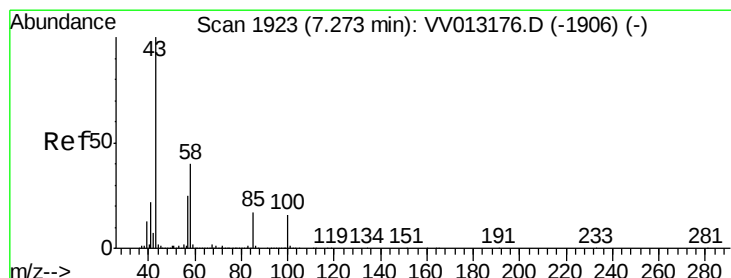
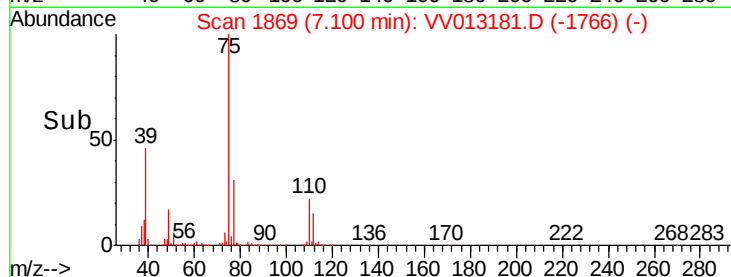
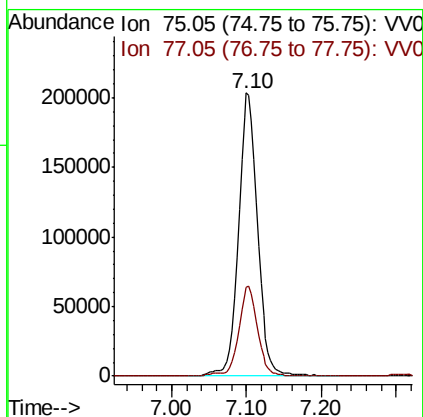
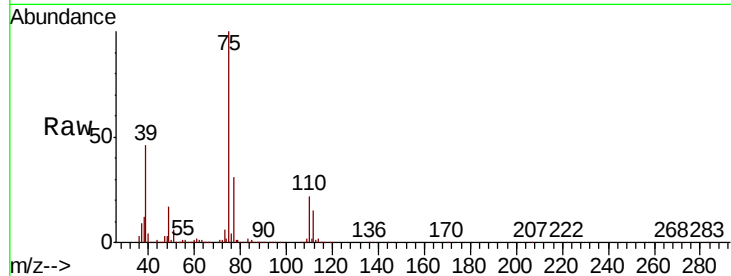


#39

cis-1,3-Dichloropropene
 Concen: 5.035 ug/L
 RT: 7.10 min Scan# 1869
 Delta R.T. 0.03 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Instrument :
 MSVOA_V
 ClientSampleId :

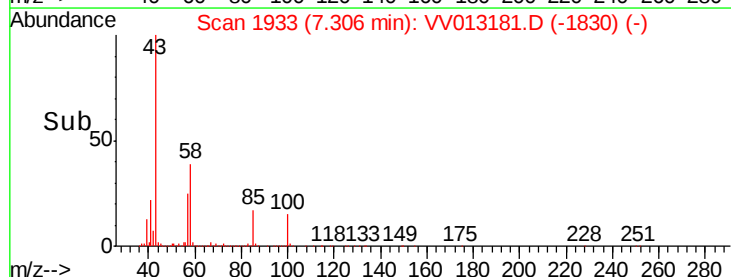
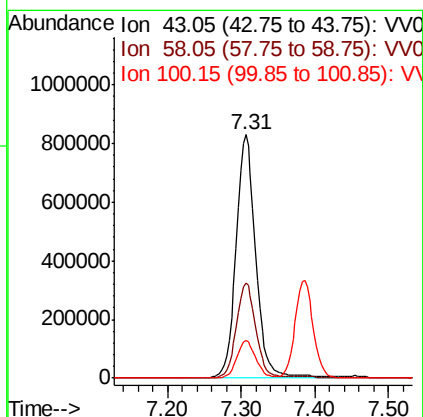
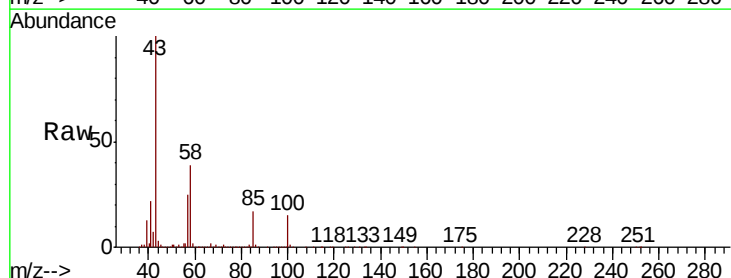
Tot Ion: 75 Resp: 361311
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.6 42.0

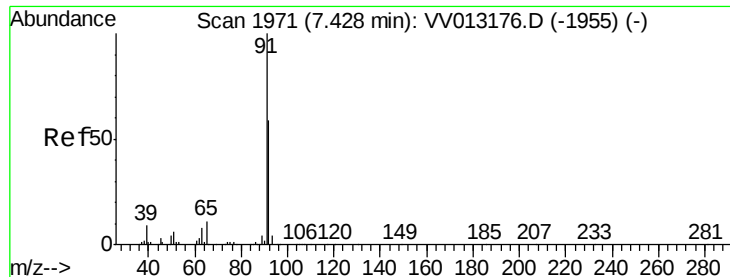


#40

4-Methyl-2-pentanone
 Concen: 53.066 ug/L
 RT: 7.31 min Scan# 1933
 Delta R.T. 0.03 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion: 43 Resp: 1539539
 Ion Ratio Lower Upper
 43 100
 58 38.7 32.4 48.6
 100 15.0 11.8 17.8





#42

Toluene

Concen: 5.308 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.03 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

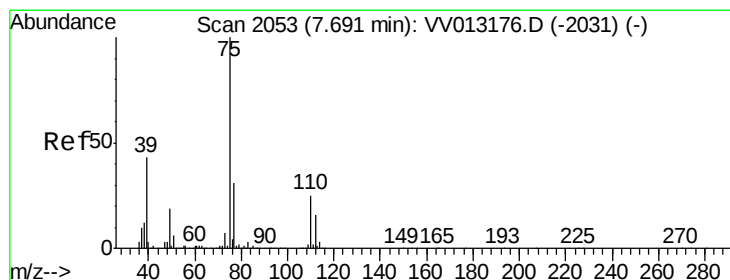
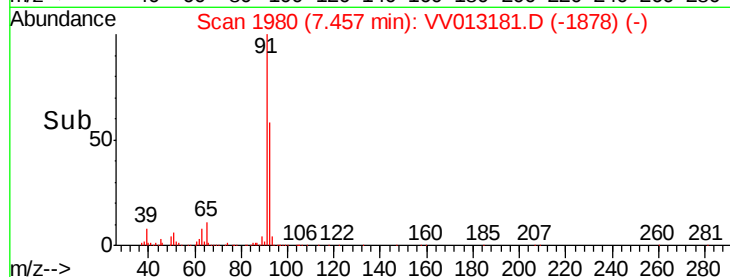
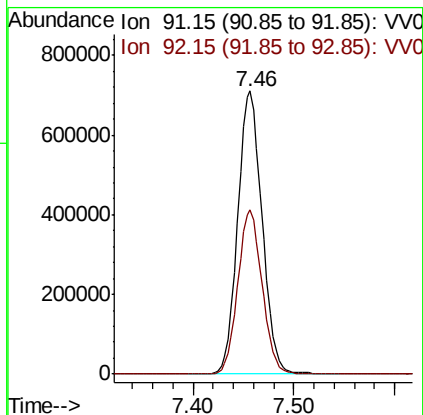
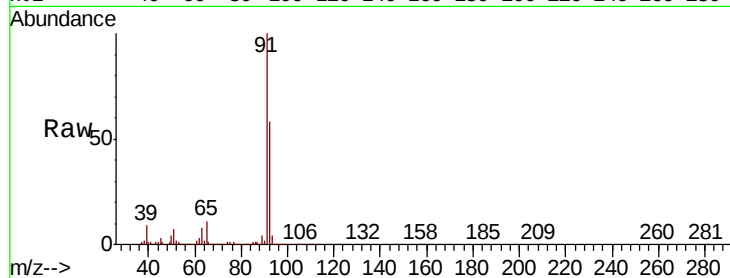
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1188025

Ion Ratio Lower Upper

91 100

92 57.8 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 4.967 ug/L

RT: 7.71 min Scan# 2060

Delta R.T. 0.02 min

Lab File: VV013181.D

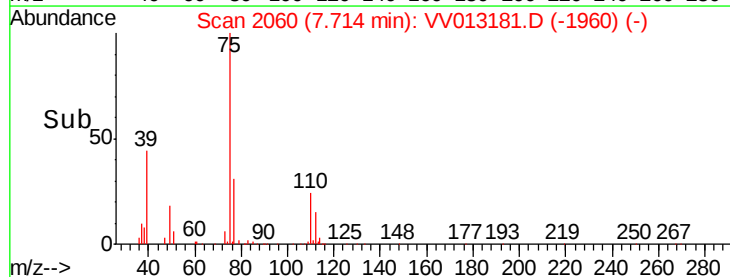
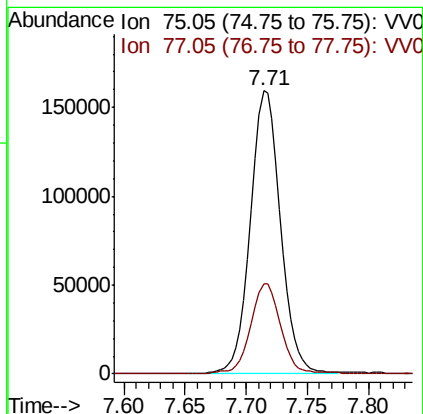
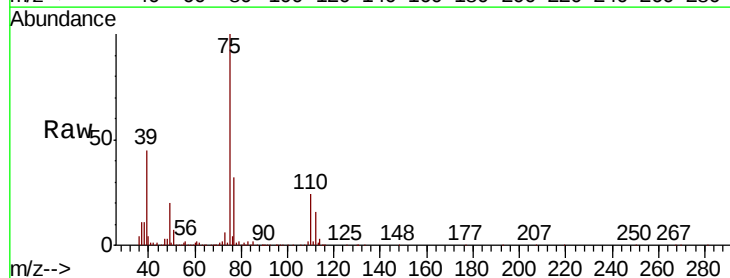
Acq: 17 Oct 2019 19:54

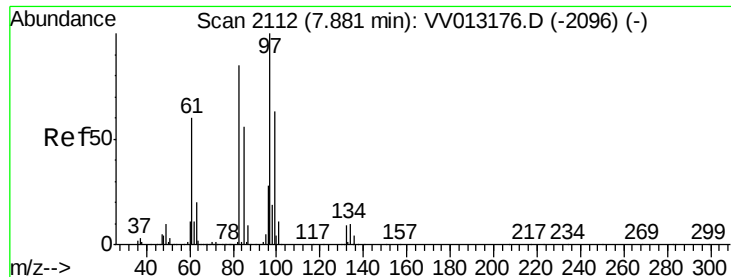
Tgt Ion: 75 Resp: 271293

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.4





#45

1,1,2-Trichloroethane

Concen: 5.070 ug/L

RT: 7.90 min Scan# 2119

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 184202

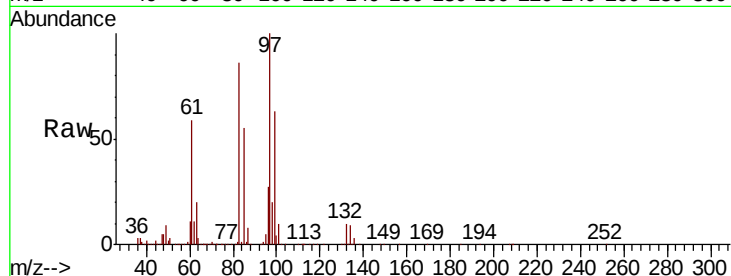
Ion Ratio Lower Upper

97 100

99 62.5 43.8 81.4

83 86.0 59.5 110.5

85 55.2 39.5 73.4

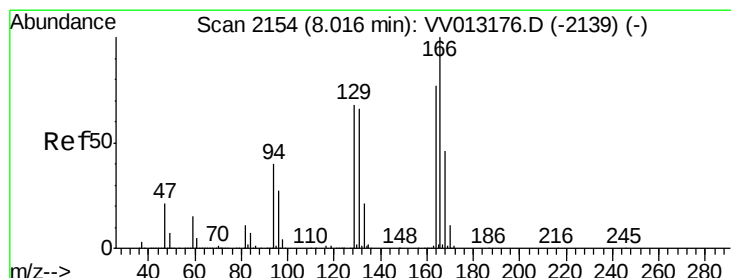
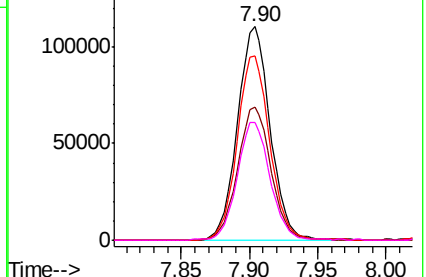
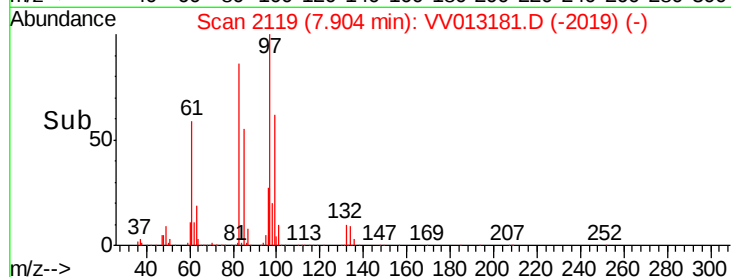


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.880 ug/L

RT: 8.04 min Scan# 2160

Delta R.T. 0.02 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Tgt Ion: 164 Resp: 240572

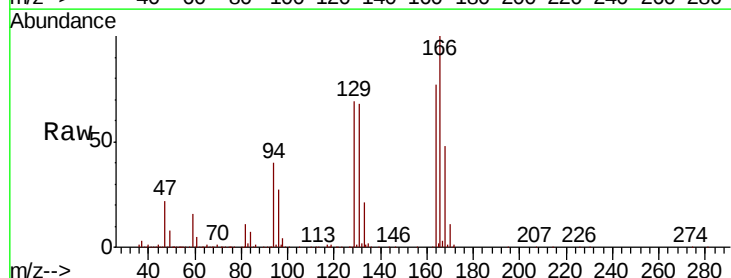
Ion Ratio Lower Upper

164 100

129 89.6 62.2 115.4

131 87.8 59.9 111.3

166 130.0 91.1 169.1

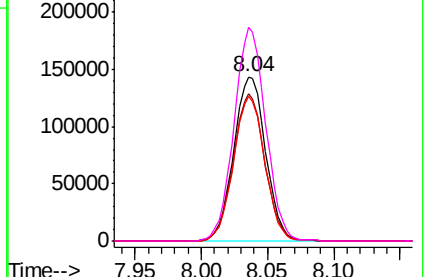
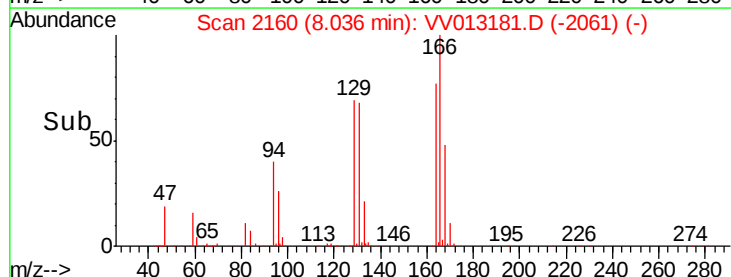


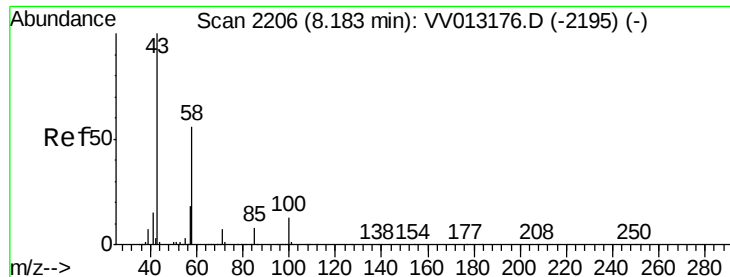
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

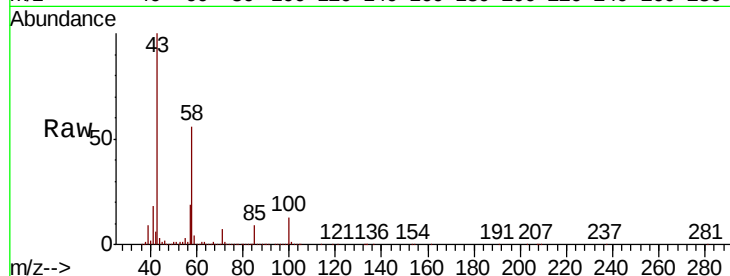




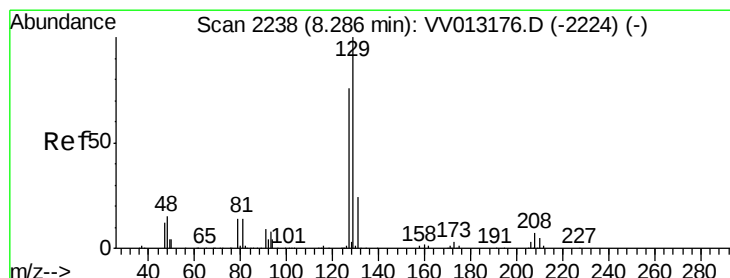
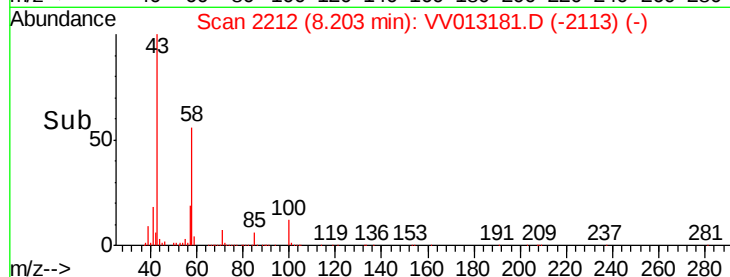
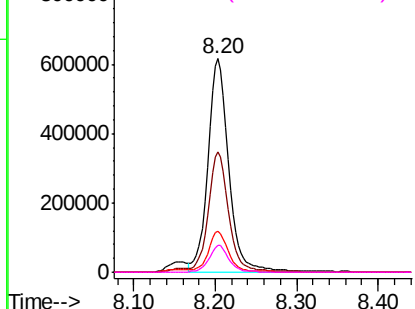
#48
2-Hexanone
Concen: 52.375 ug/L
RT: 8.20 min Scan# 2212
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 1103767
Ion Ratio Lower Upper
43 100
58 57.6 44.2 66.2
57 18.6 14.5 21.7
100 12.5 9.5 14.3

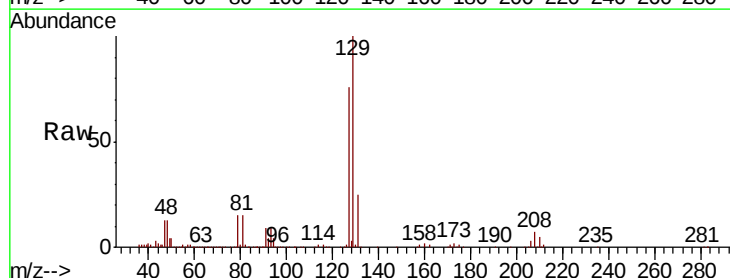


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

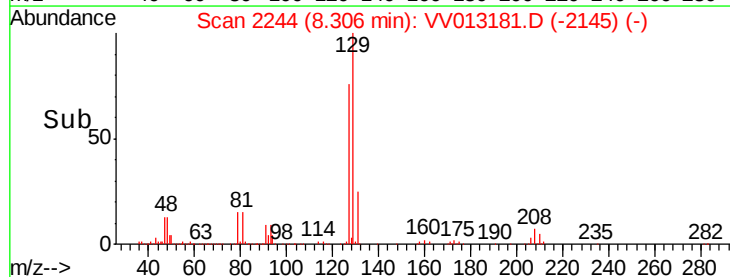
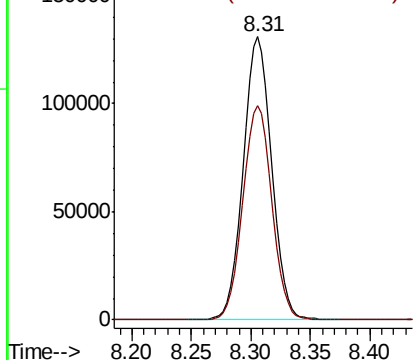


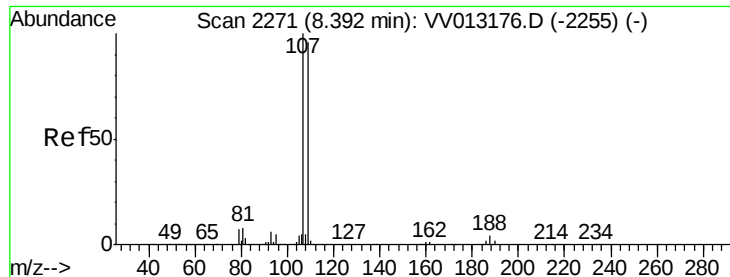
#49
Dibromochloromethane
Concen: 4.962 ug/L
RT: 8.31 min Scan# 2244
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion: 129 Resp: 217078
Ion Ratio Lower Upper
129 100
127 75.8 53.2 98.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

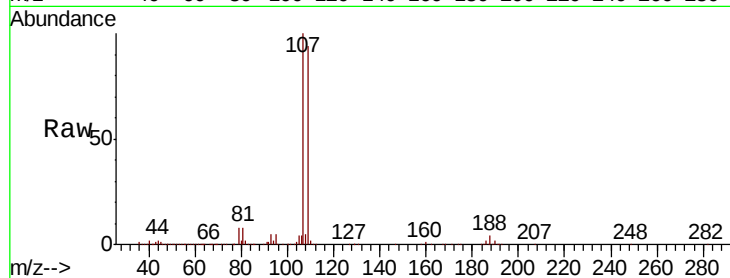




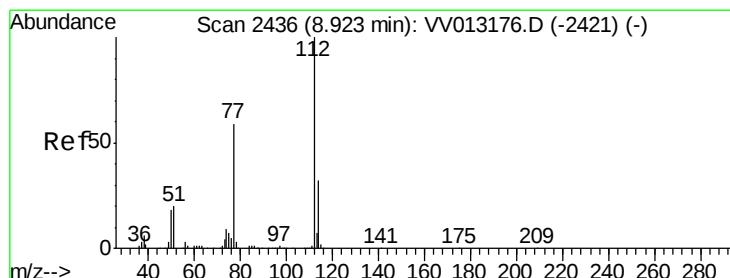
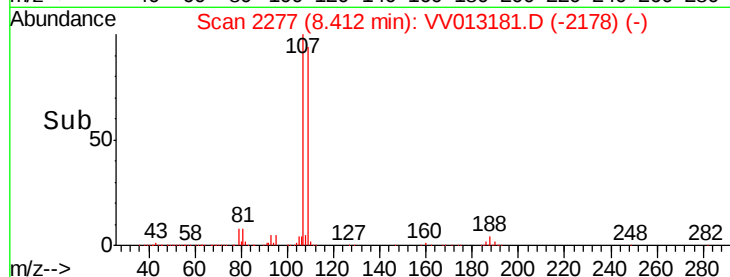
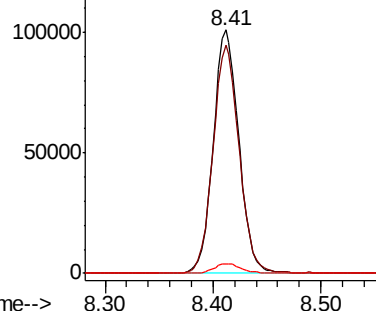
#50
1,2-Dibromoethane
Concen: 4.962 ug/L
RT: 8.41 min Scan# 2277
Delta R.T. 0.02 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	67.3	124.9
188	4.1	3.3	4.9

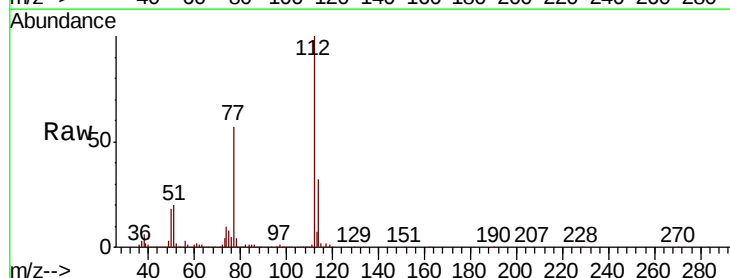


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

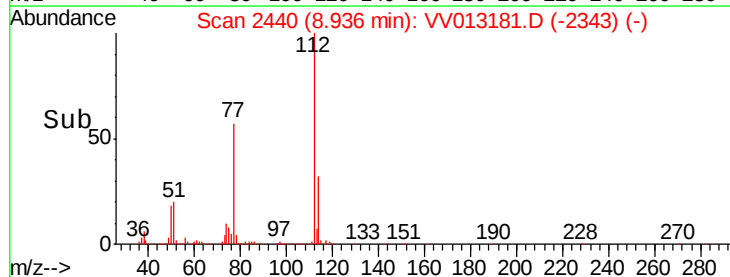
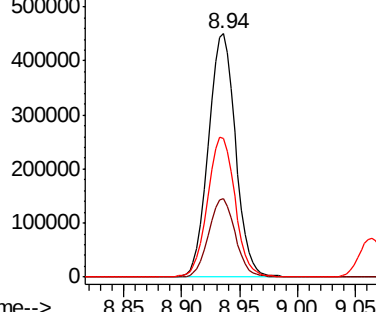


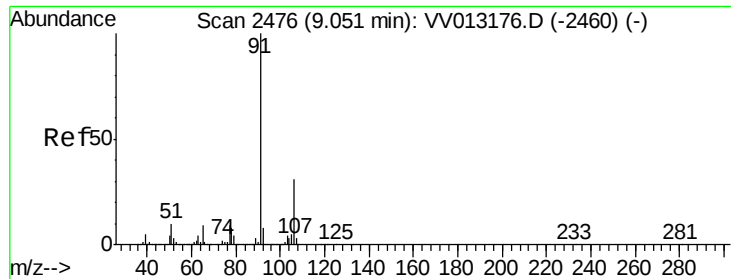
#51
Chlorobenzene
Concen: 5.084 ug/L
RT: 8.94 min Scan# 2440
Delta R.T. 0.01 min
Lab File: VV013181.D
Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.6	42.0
77	56.9	47.5	71.3



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.135 ug/L

RT: 9.06 min Scan# 2480

Delta R.T. 0.01 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

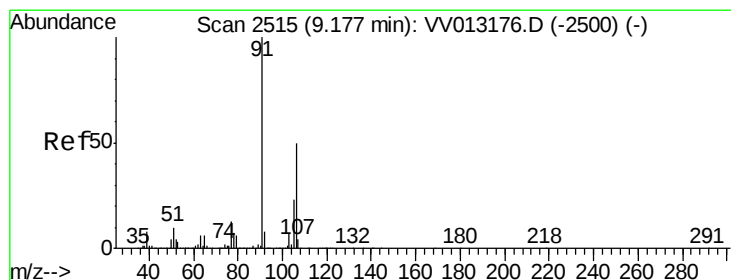
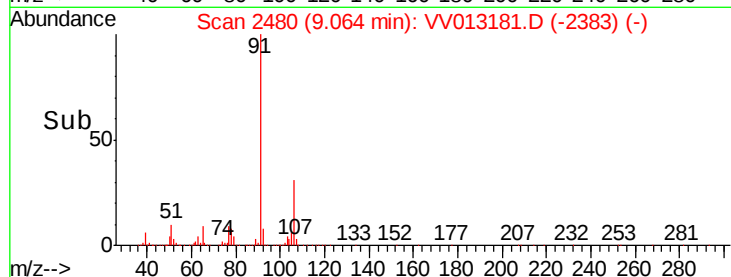
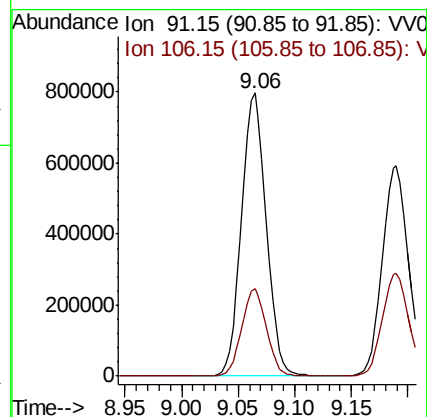
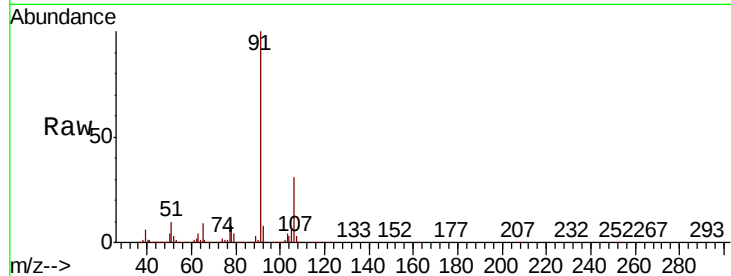
ClientSampleId :

Tot Ion: 91 Resp: 1221447

Ion Ratio Lower Upper

91 100

106 30.8 22.0 40.8



#53

m,p-xylene

Concen: 5.200 ug/L

RT: 9.19 min Scan# 2519

Delta R.T. 0.01 min

Lab File: VV013181.D

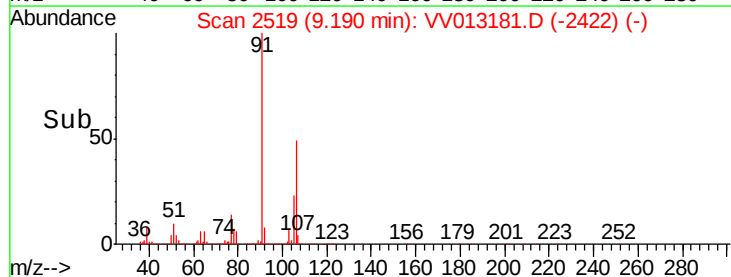
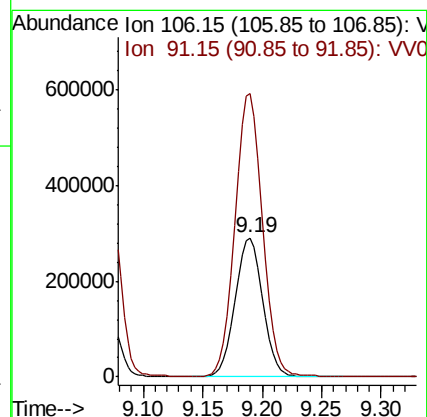
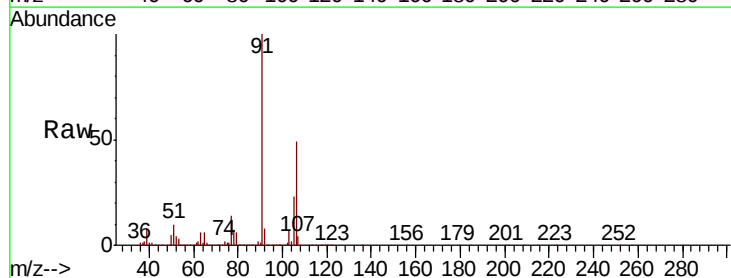
Acq: 17 Oct 2019 19:54

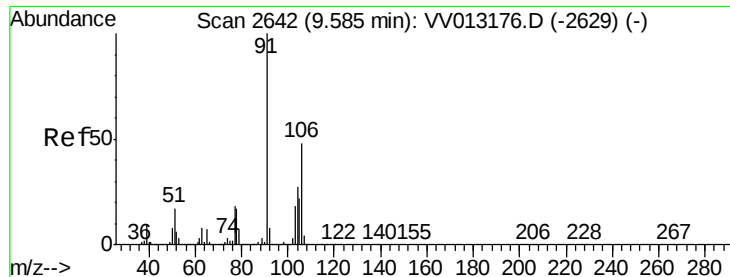
Tgt Ion: 106 Resp: 467056

Ion Ratio Lower Upper

106 100

91 203.6 141.3 262.5





#54

o-xylene

Concen: 5.157 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.01 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

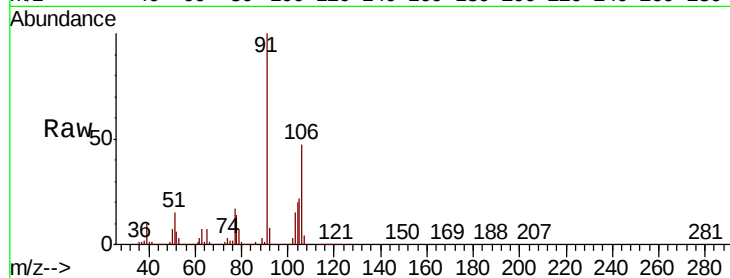
ClientSampleId :

Tot Ion:106 Resp: 448097

Ion Ratio Lower Upper

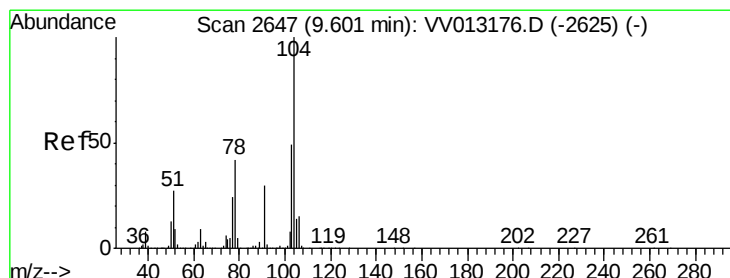
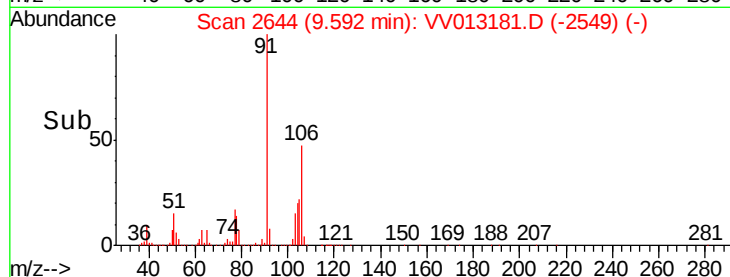
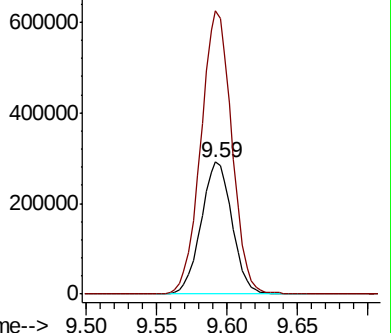
106 100

91 214.6 145.3 269.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.397 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.01 min

Lab File: VV013181.D

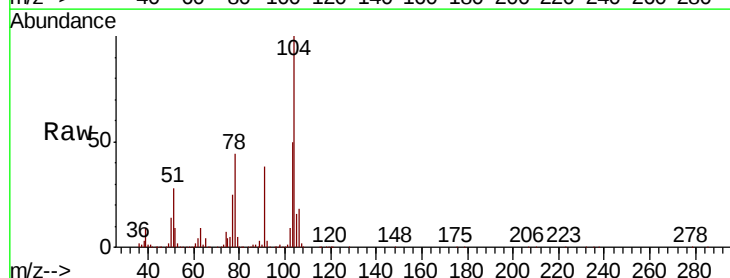
Acq: 17 Oct 2019 19:54

Tgt Ion:104 Resp: 776979

Ion Ratio Lower Upper

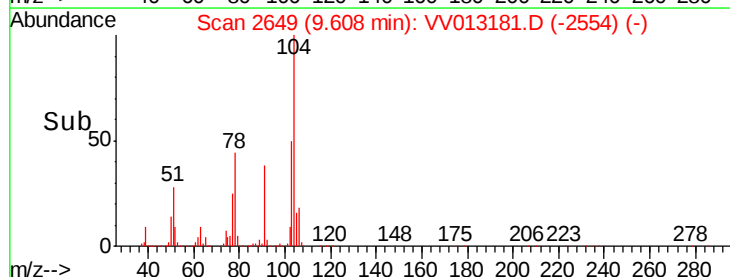
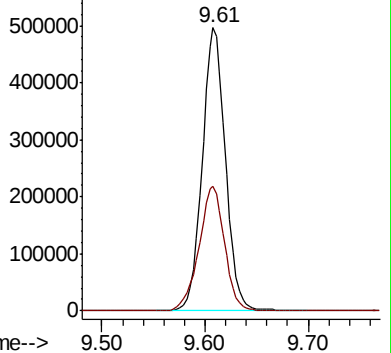
104 100

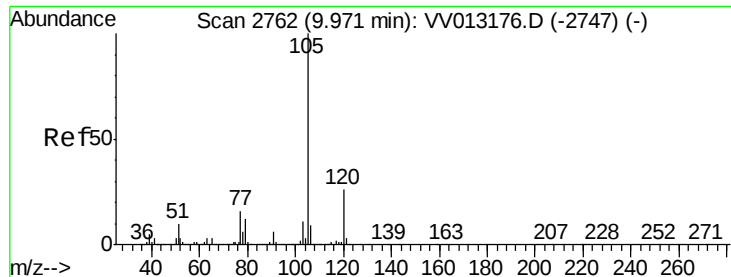
78 44.2 29.5 54.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.221 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.01 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

ClientSampleId :

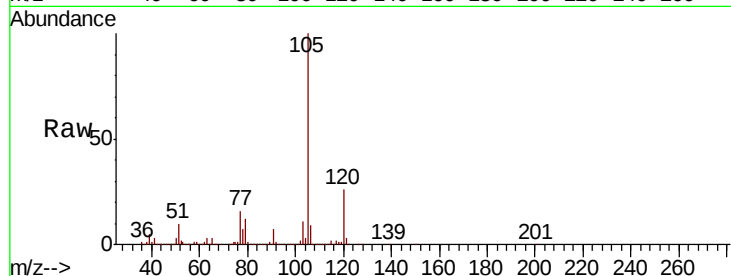
Tot Ion:105 Resp: 1191189

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.6

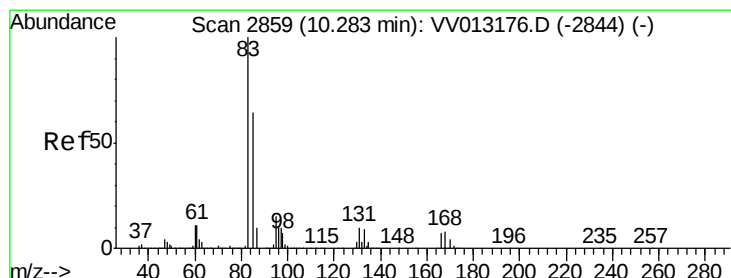
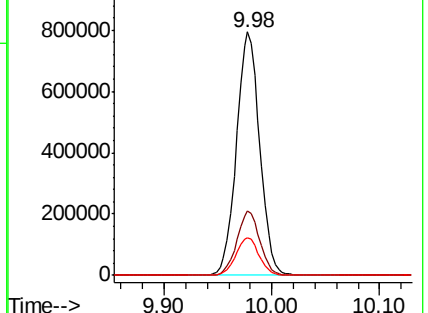
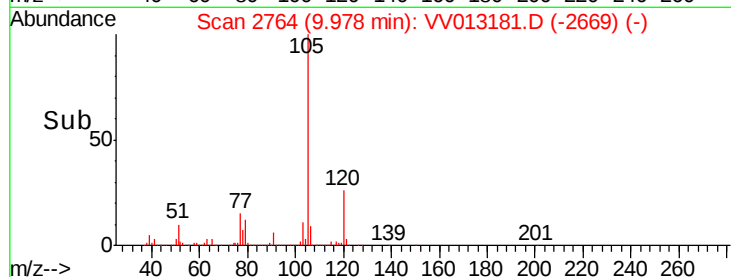
77 15.5 12.4 18.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.861 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.01 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

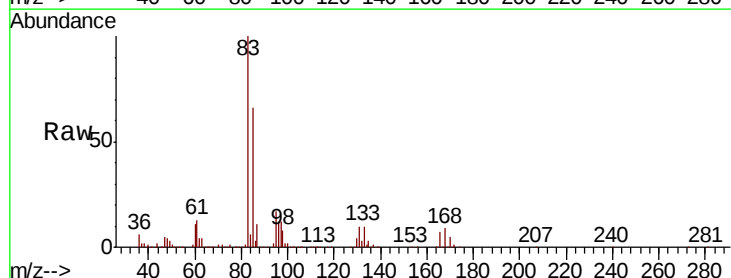
Tgt Ion: 83 Resp: 217027

Ion Ratio Lower Upper

83 100

85 65.9 44.6 82.8

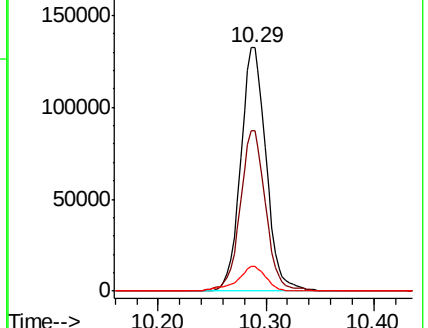
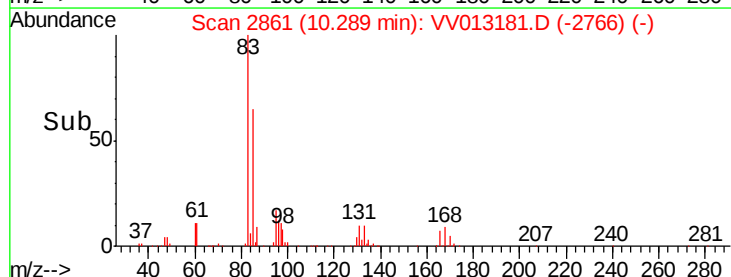
131 10.0 8.3 12.5

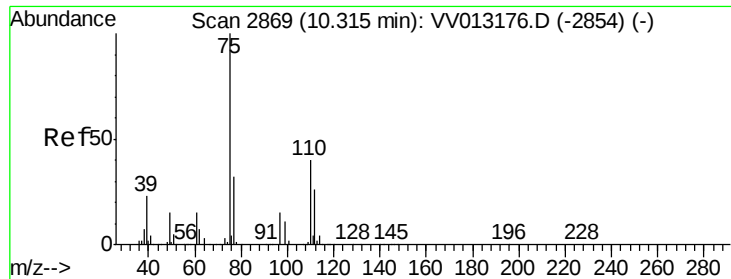


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

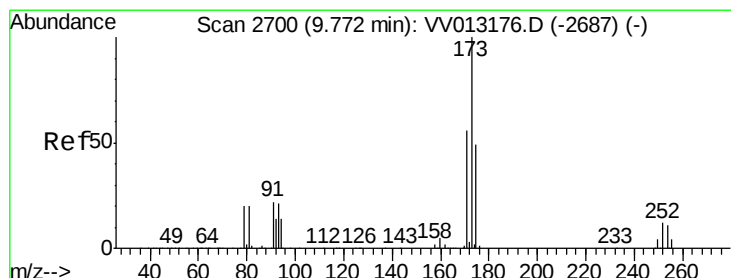
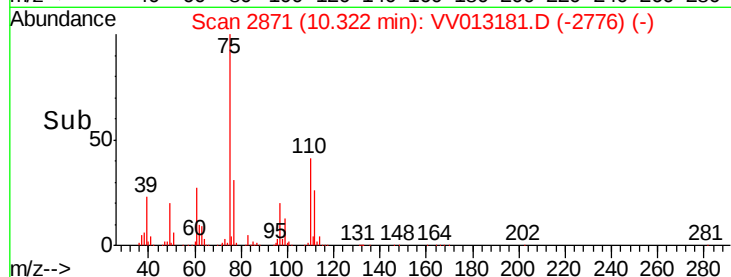
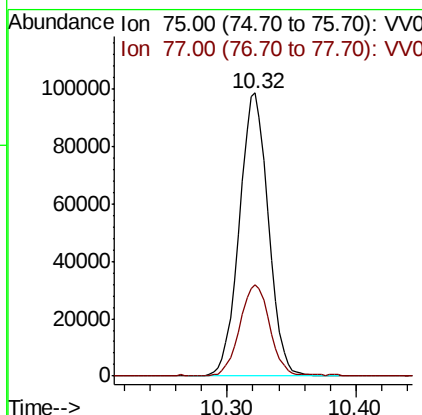
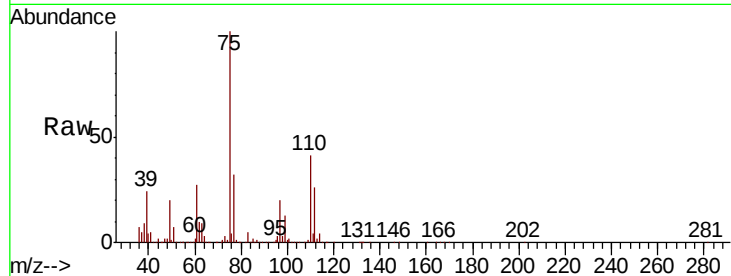




#59
 1,2,3-Trichloropropane
 Concen: 4.961 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.01 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

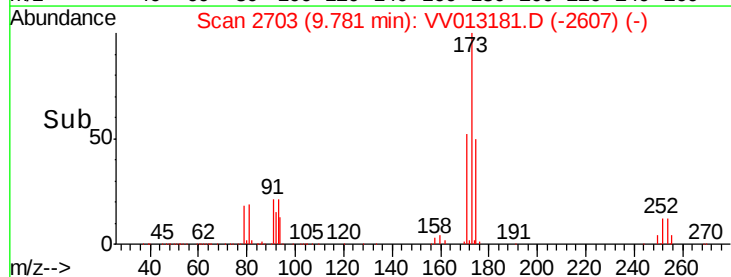
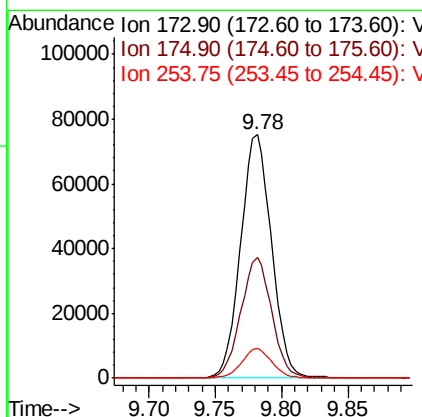
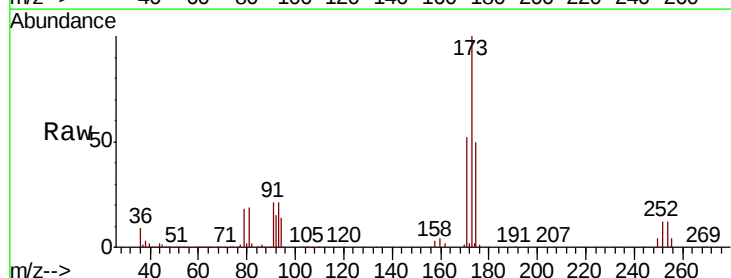
Instrument :
 MSVOA_V
 ClientSampled :

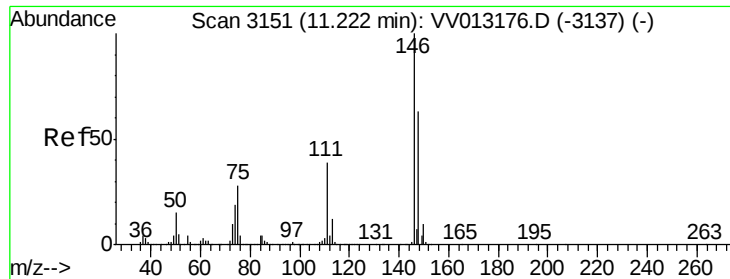
Tot Ion: 75 Resp: 154343
 Ion Ratio Lower Upper
 75 100
 77 32.8 26.0 39.0



#61
 Bromoform
 Concen: 4.993 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.01 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion: 173 Resp: 121684
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.1 58.7
 254 12.0 9.4 14.2

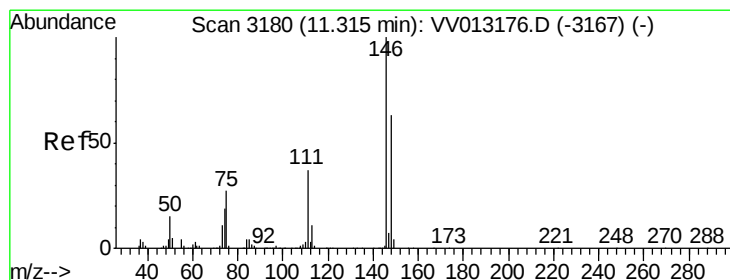
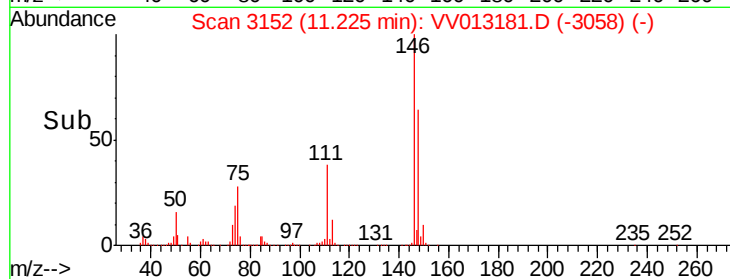
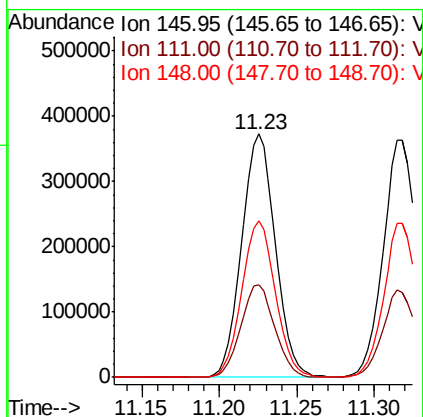
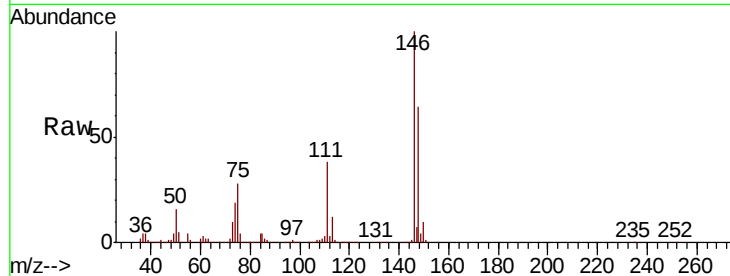




#62
 1,3-Dichlorobenzene
 Concen: 5.072 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

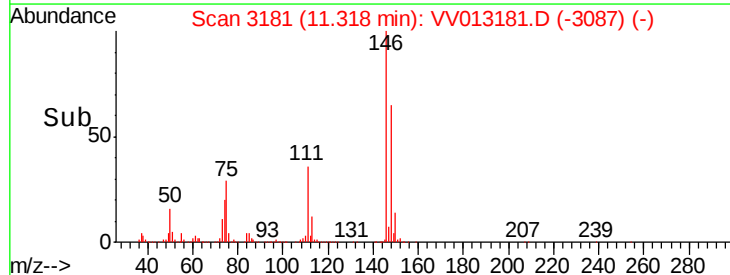
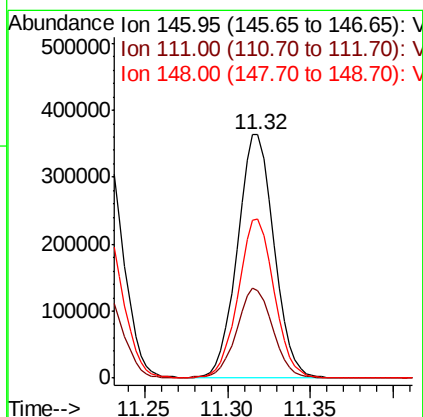
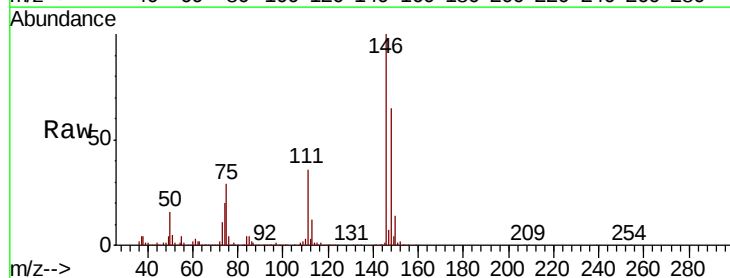
Instrument :
 MSVOA_V
 ClientSampled :

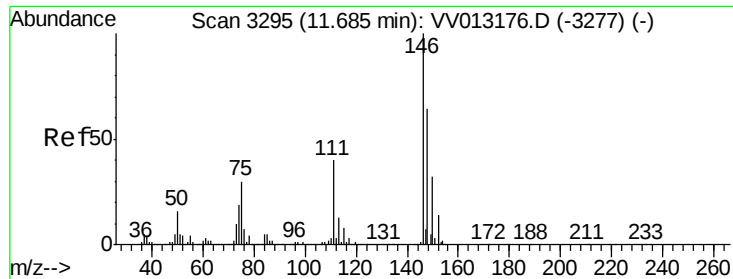
Tot Ion:146 Resp: 565464
 Ion Ratio Lower Upper
 146 100
 111 38.2 27.1 50.3
 148 64.1 44.4 82.5



#63
 1,4-Dichlorobenzene
 Concen: 5.047 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion:146 Resp: 556981
 Ion Ratio Lower Upper
 146 100
 111 35.8 25.7 47.7
 148 65.1 44.4 82.5

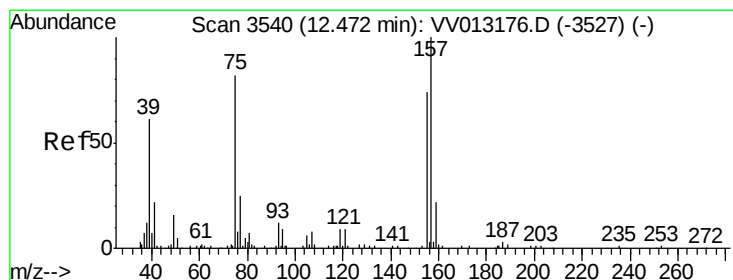
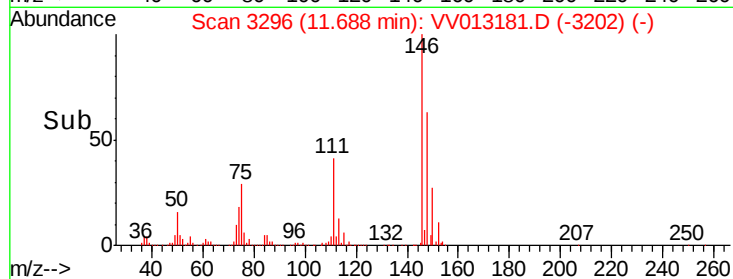
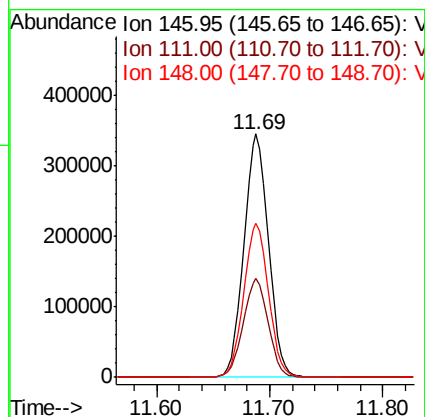
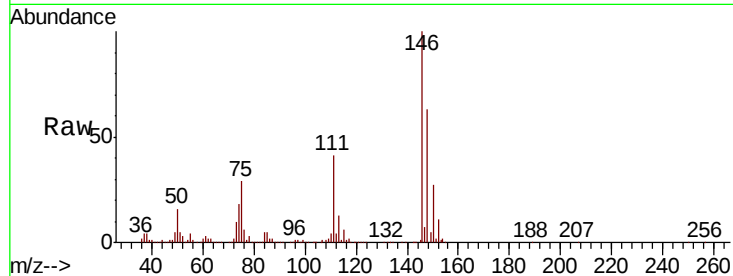




#65
 1,2-Dichlorobenzene
 Concen: 5.029 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

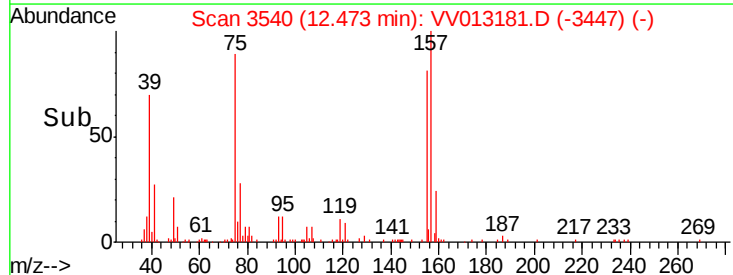
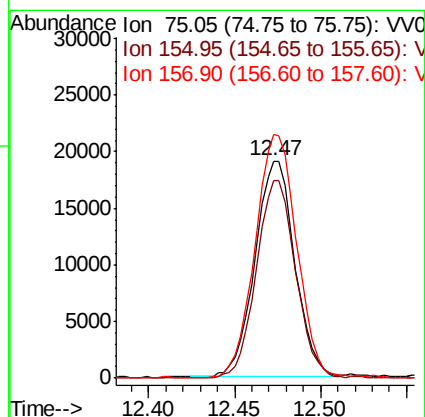
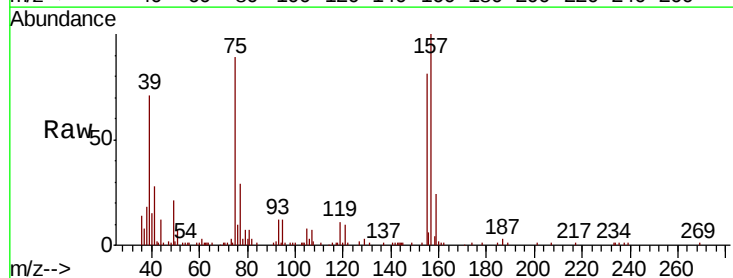
Instrument :
 MSVOA_V
 ClientSampleId :

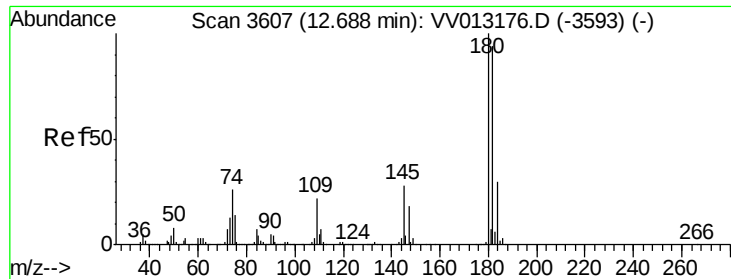
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	31.9	47.9
148	63.4	51.4	77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.501 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.2	71.9	107.9
157	112.1	97.3	145.9

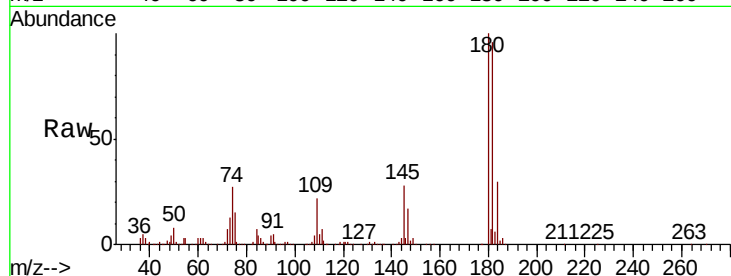




#67
 1,3,5-Trichlorobenzene
 Concen: 4.799 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.6
184	30.3	24.2	36.4
145	27.4	22.1	33.1



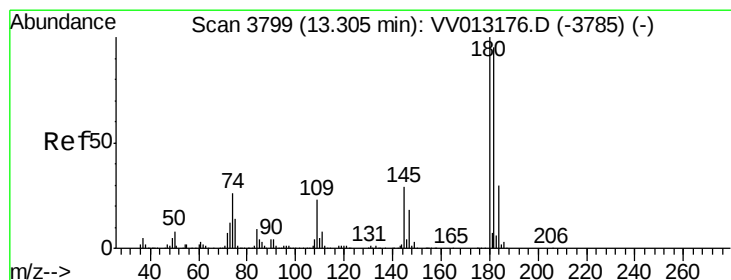
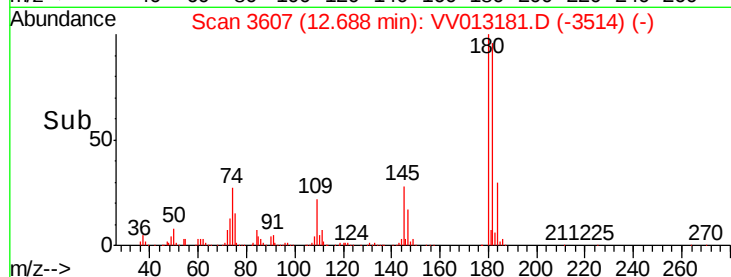
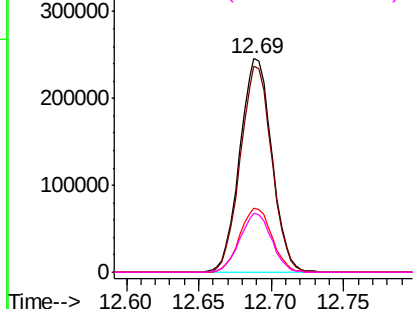
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

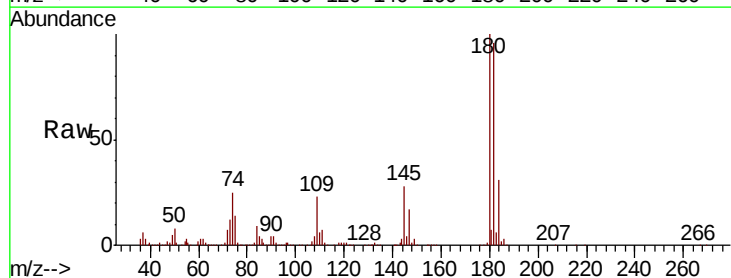
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.648 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013181.D
 Acq: 17 Oct 2019 19:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
145	27.2	22.4	33.6

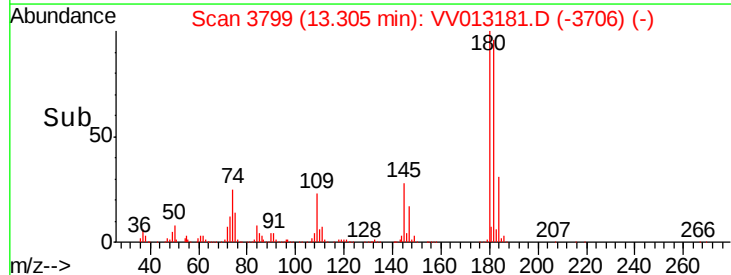
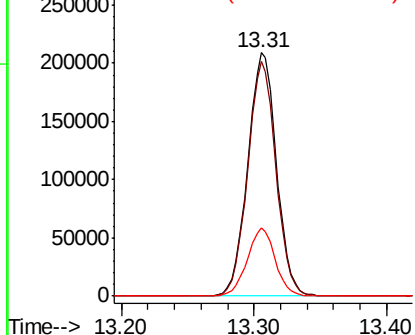


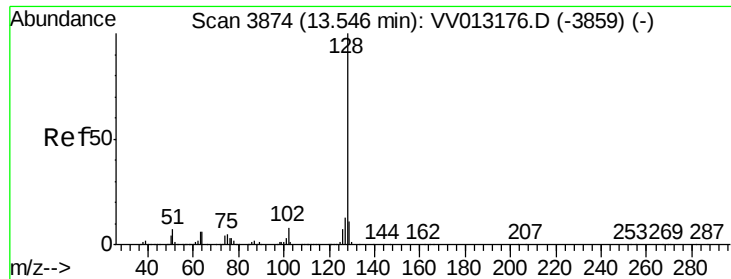
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.792 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

Instrument :

MSVOA_V

ClientSampleId :

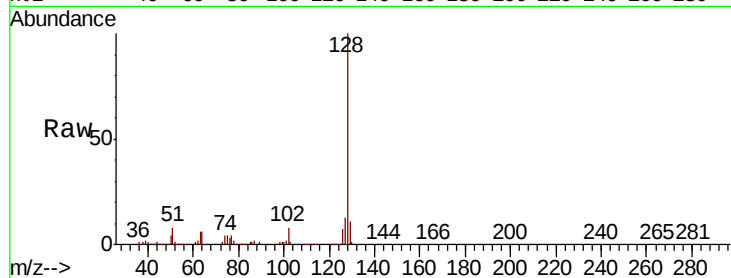
Tot Ion:128 Resp: 471332

Ion Ratio Lower Upper

128 100

129 10.5 8.6 13.0

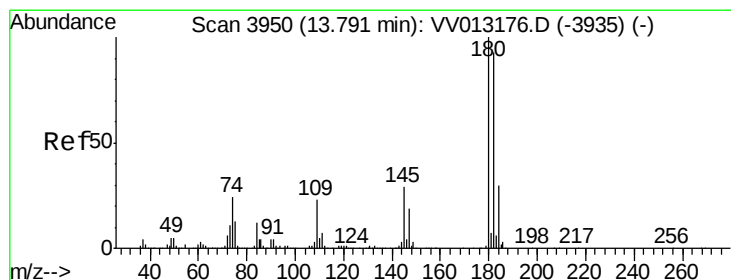
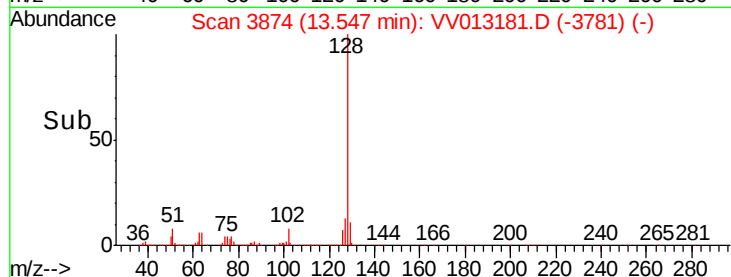
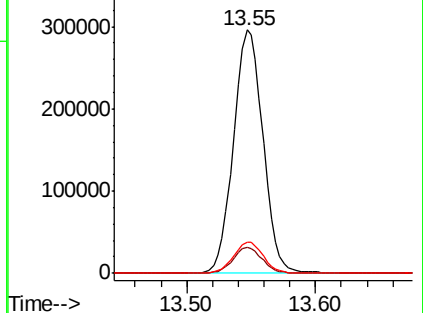
127 12.9 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.785 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013181.D

Acq: 17 Oct 2019 19:54

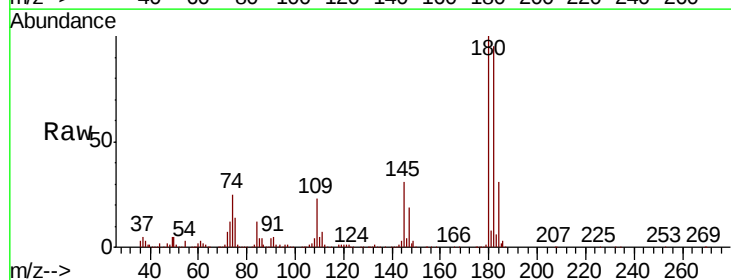
Tgt Ion:180 Resp: 307718

Ion Ratio Lower Upper

180 100

182 94.9 76.5 114.7

145 30.2 23.8 35.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

