

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100419\
 Data File : VV013039.D
 Acq On : 04 Oct 2019 10:08
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 04 18:22:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 04 07:46:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	741798	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	722846	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	390979	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	211314	18.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	73.44%
7) Chloroethane-d5	1.58	69	194153	20.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.44%
10) 1,1-Dichloroethene-d2	2.13	63	391482	20.45	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.80%
20) 2-Butanone-d5	3.95	46	181186	45.59	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.18%
24) Chloroform-d	4.40	84	436547	21.42	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	85.68%
26) 1,2-Dichloroethane-d4	5.08	65	246996	20.85	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.40%
29) Benzene-d6	5.09	84	865982	21.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.84%
33) 1,2-Dichloropropane-d6	6.11	67	273173	21.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.36%
37) Toluene-d8	7.36	98	798755	21.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	87.20%
38) trans-1,3-Dichloropropene-	7.66	79	111913	20.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.56%
39) 2-Hexanone-d5	8.13	63	122129	47.98	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.96%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	260955	21.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.88%
61) 1,2-Dichlorobenzene-d4	11.67	152	319966	21.06	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.24%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	219303	26.845 ug/L	98
3) Chloromethane	1.25	50	266988	25.026 ug/L	99
5) Vinyl chloride	1.32	62	272394	25.861 ug/L	100
6) Bromomethane	1.54	94	167837	25.526 ug/L	97
8) Chloroethane	1.60	64	173483	26.803 ug/L	100
9) Trichlorofluoromethane	1.77	101	360819	25.328 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	222014	24.383 ug/L	98
12) 1,1-Dichloroethene	2.14	96	209196	24.947 ug/L	94
13) Acetone	2.22	43	219808	52.039 ug/L	99
14) Carbon disulfide	2.32	76	642409	23.983 ug/L	100
15) Methyl Acetate	2.47	43	155478	23.733 ug/L	98
16) Methylene chloride	2.53	84	265642	23.958 ug/L	100
17) Methyl tert-butyl Ether	2.80	73	606108	24.634 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	246472	24.832 ug/L	99
19) 1,1-Dichloroethane	3.23	63	457423	25.254 ug/L	99
21) 2-Butanone	4.04	43	239811	48.785 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	273764	25.202 ug/L	99

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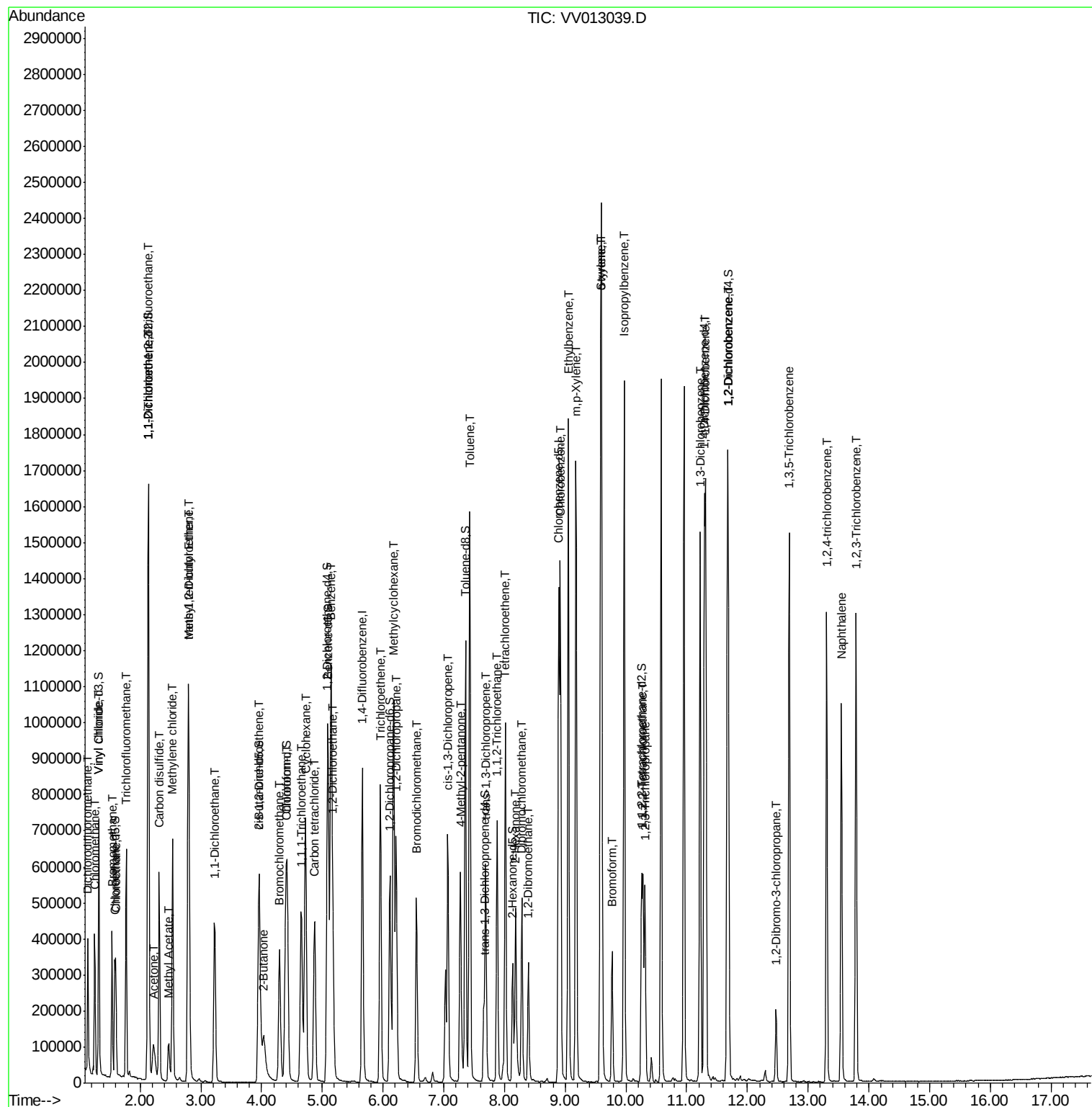
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	129073	24.055	ug/L	97
25) Chloroform	4.42	83	463899	24.427	ug/L	99
27) 1,2-Dichloroethane	5.18	62	324596	24.182	ug/L	100
30) Cyclohexane	4.72	56	398466	25.694	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	373510	26.108	ug/L	99
32) Carbon tetrachloride	4.87	117	336489	25.940	ug/L	100
34) Benzene	5.14	78	1049731	26.089	ug/L	100
35) Trichloroethene	5.95	95	278937	24.886	ug/L	99
36) Methylcyclohexane	6.17	83	435654	25.319	ug/L	100
40) 1,2-Dichloropropane	6.22	63	265202	25.346	ug/L	99
41) Bromodichloromethane	6.55	83	337773	25.203	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	398184	25.899	ug/L	97
43) 4-Methyl-2-pentanone	7.27	43	436484	50.773	ug/L	98
44) Toluene	7.43	91	1126736	26.551	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	333977	25.810	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	220403	24.811	ug/L	99
47) Tetrachloroethene	8.02	164	232296	25.499	ug/L	98
49) 2-Hexanone	8.18	43	325373	50.211	ug/L	98
50) Dibromochloromethane	8.29	129	253375	24.817	ug/L	99
51) 1,2-Dibromoethane	8.39	107	216559	24.877	ug/L	98
52) Chlorobenzene	8.92	112	739625	25.256	ug/L	99
53) Ethylbenzene	9.05	91	1244659	26.638	ug/L	100
54) m,p-Xylene	9.18	106	476612	26.831	ug/L	99
55) o-xylene	9.59	106	454685	26.865	ug/L	99
56) Styrene	9.60	104	815306	27.378	ug/L	100
57) Isopropylbenzene	9.97	105	1223988	27.518	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	268046	24.394	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	215573	23.769	ug/L	99
62) Bromoform	9.77	173	161377	24.323	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	614552	25.536	ug/L	99
64) 1,4-Dichlorobenzene	11.31	146	619053	24.509	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	570627	24.858	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	46149	22.675	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	480741	25.537	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	407871	24.776	ug/L	100
69) Naphthalene	13.55	128	805484	24.327	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	388990	24.577	ug/L	100

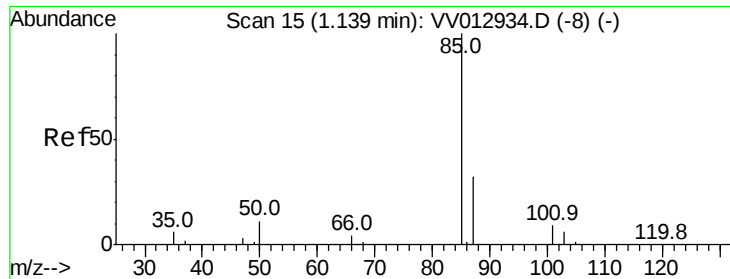
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 26.845 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

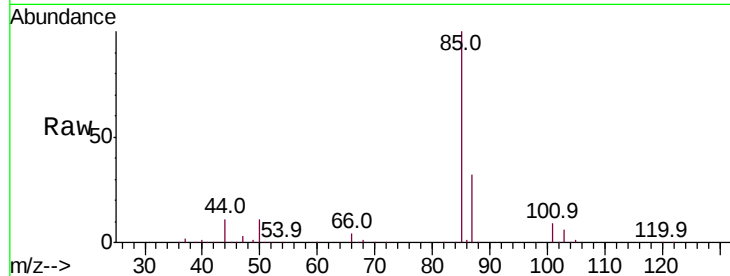
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 219303

Ion Ratio Lower Upper

85 100

87 31.9 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV013039.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV013039.D (-1) (-)

1.14

250000

200000

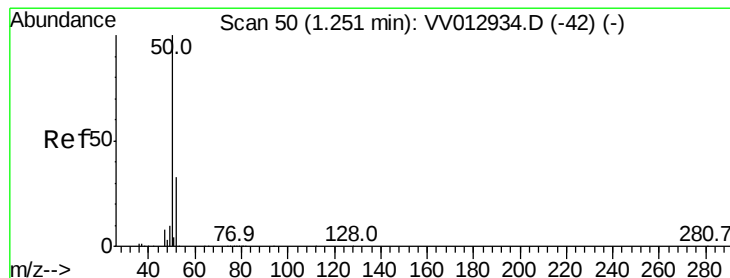
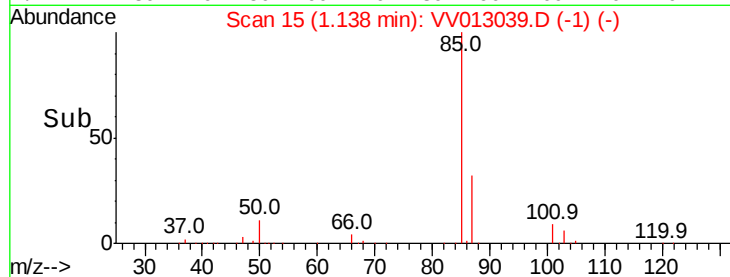
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 25.026 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013039.D

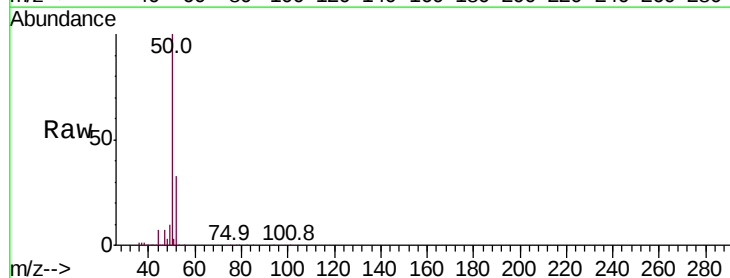
Acq: 04 Oct 2019 10:08

Tgt Ion: 50 Resp: 266988

Ion Ratio Lower Upper

50 100

52 32.7 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV013039.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV013039.D (-1) (-)

1.25

250000

200000

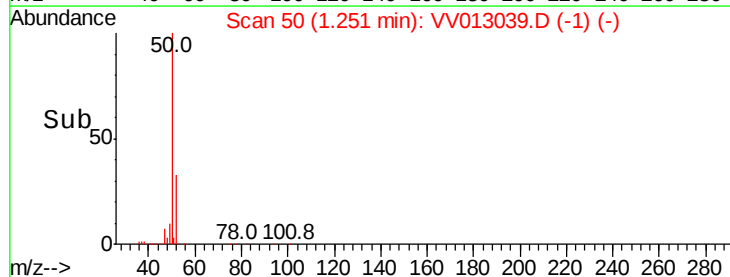
150000

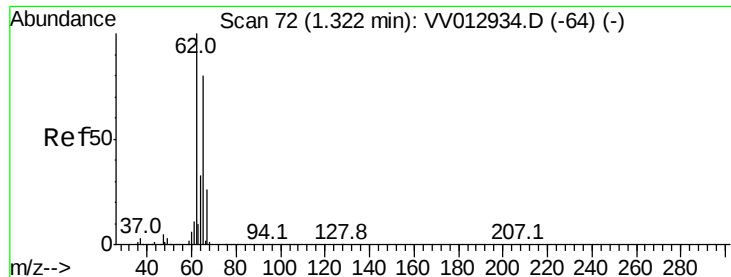
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 25.861 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

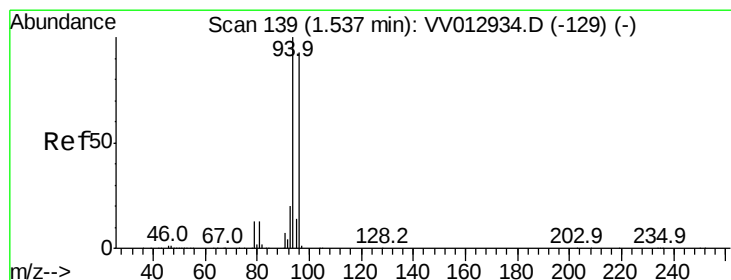
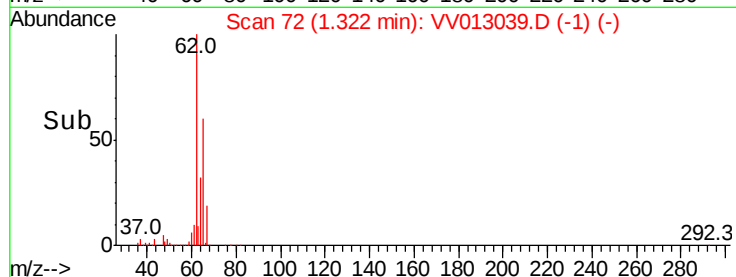
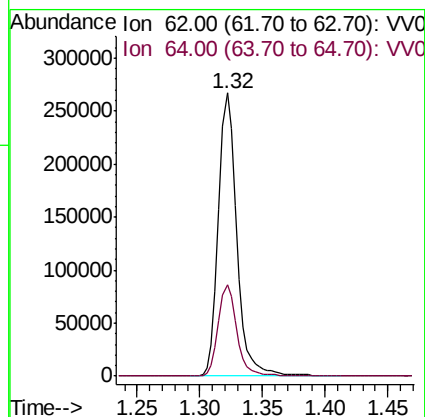
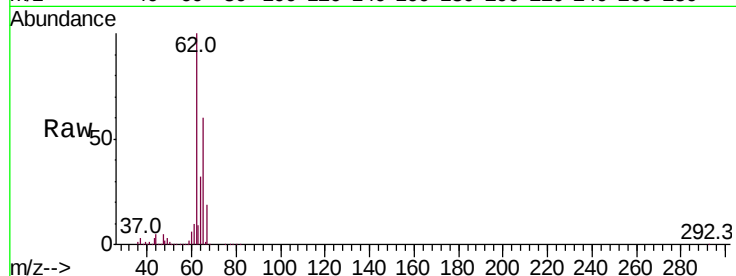
ClientSampled :

Tot Ion: 62 Resp: 272394

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.1



#6

Bromomethane

Concen: 25.526 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV013039.D

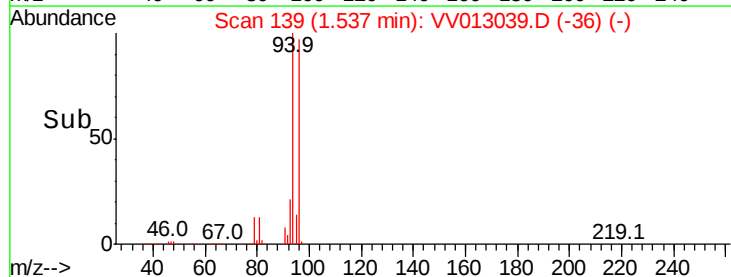
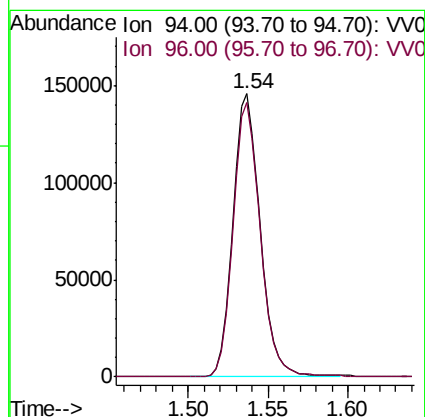
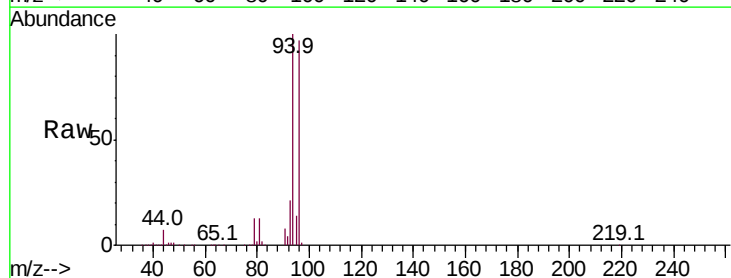
Acq: 04 Oct 2019 10:08

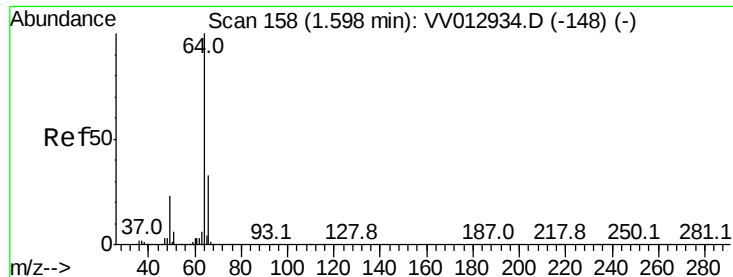
Tgt Ion: 94 Resp: 167837

Ion Ratio Lower Upper

94 100

96 96.8 9.4 177.8





#8

Chloroethane

Concen: 26.803 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

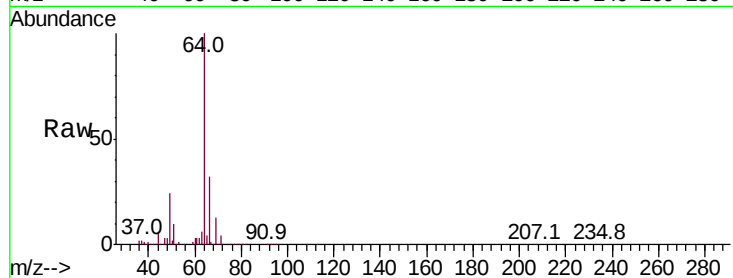
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 173483

Ion Ratio Lower Upper

64 100

66 31.8 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV012934.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV012934.D (-148) (-)

150000

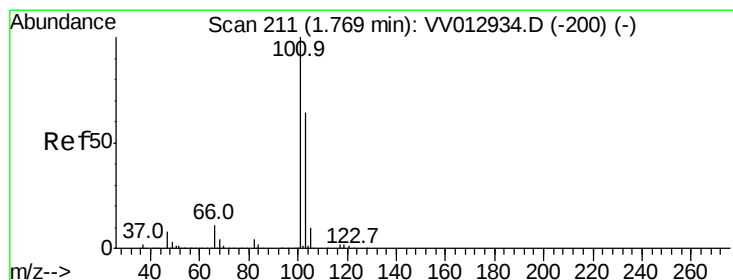
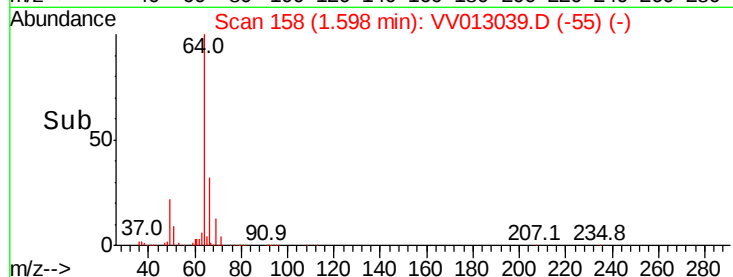
100000

50000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 25.328 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013039.D

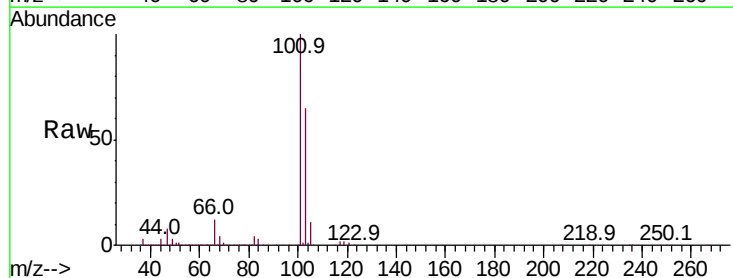
Acq: 04 Oct 2019 10:08

Tgt Ion:101 Resp: 360819

Ion Ratio Lower Upper

101 100

103 64.9 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV012934.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012934.D (-200) (-)

300000

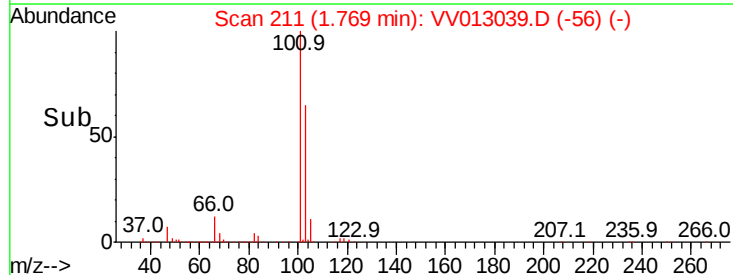
200000

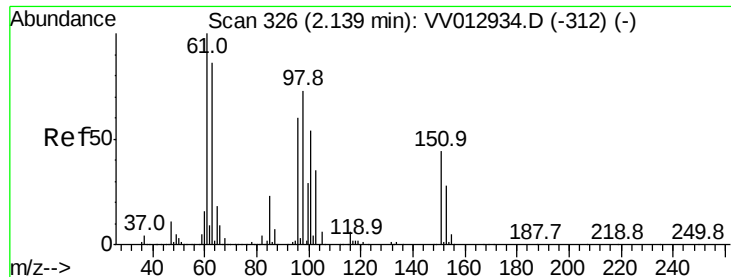
100000

0

1.70 1.75 1.80 1.85

Time-->





#11

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

Concen: 24.383 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

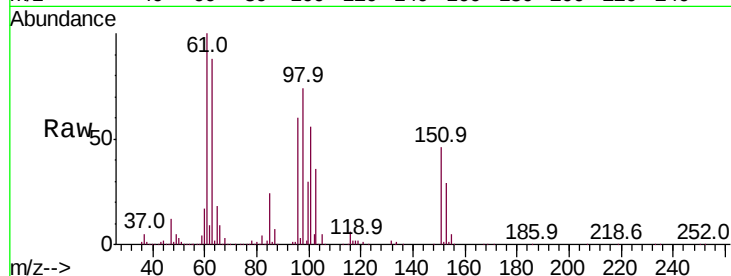
Tot Ion:101 Resp: 222014

Ion Ratio Lower Upper

101 100

85 42.2 32.6 49.0

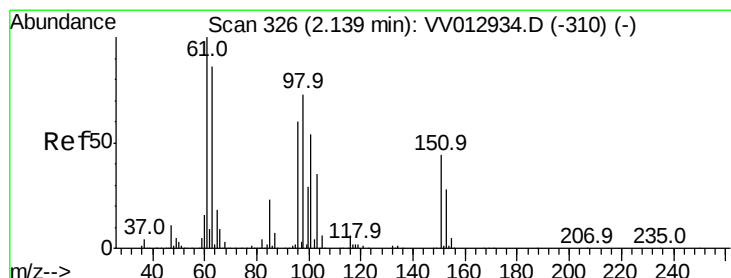
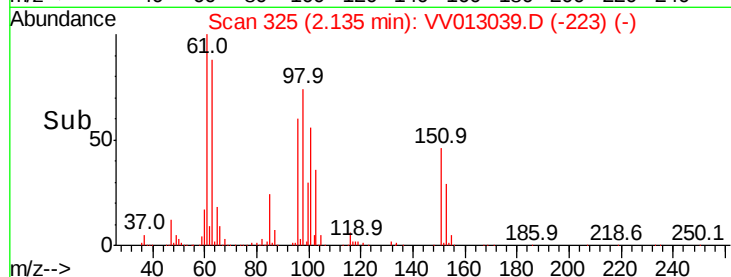
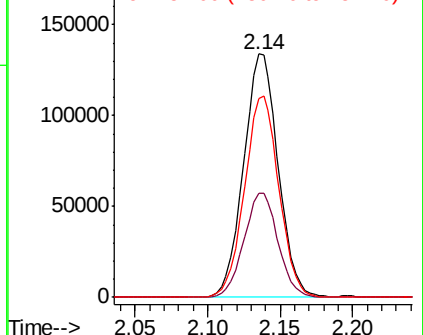
151 82.3 64.2 96.4



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: 24.947 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

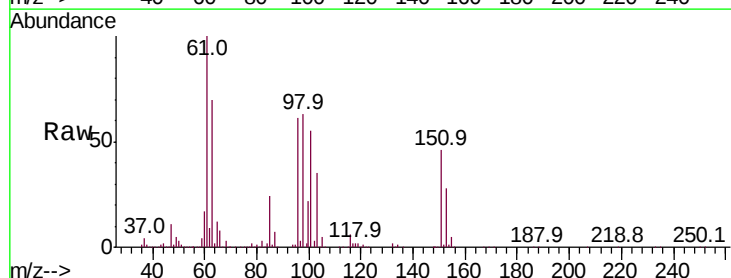
Tgt Ion: 96 Resp: 209196

Ion Ratio Lower Upper

96 100

61 164.8 117.2 217.8

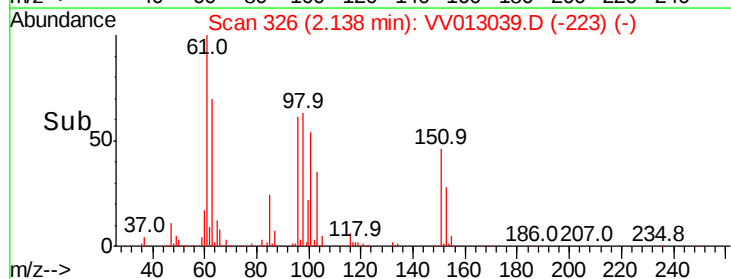
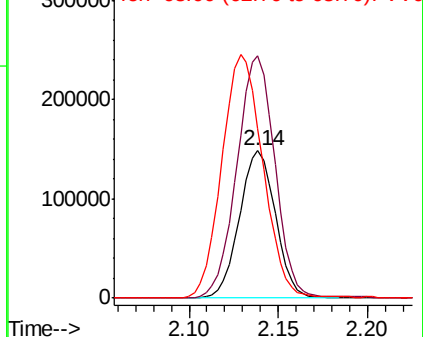
63 115.0 89.6 166.4

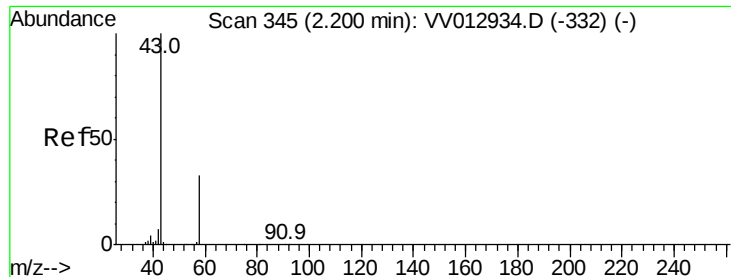


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 52.039 ug/L

RT: 2.22 min Scan# 352

Delta R.T. 0.02 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

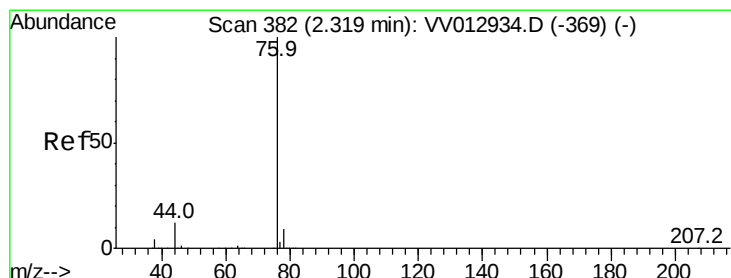
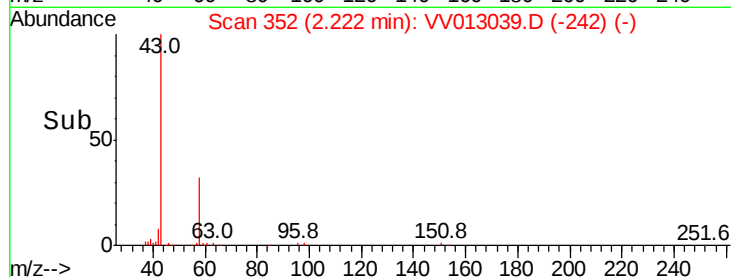
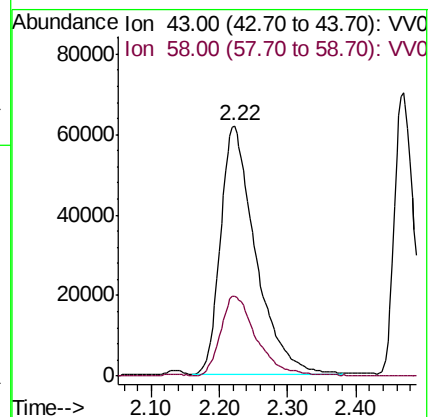
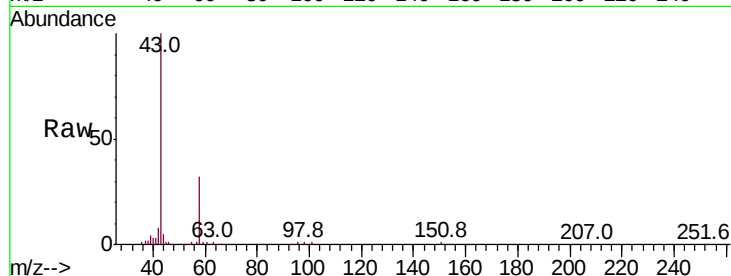
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 219808

Ion Ratio Lower Upper

43 100

58 33.0 0.0 65.0



#14

Carbon disulfide

Concen: 23.983 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

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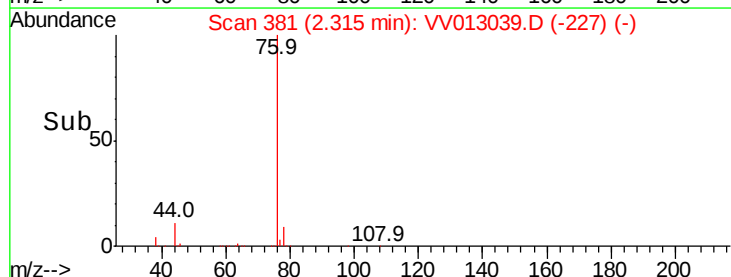
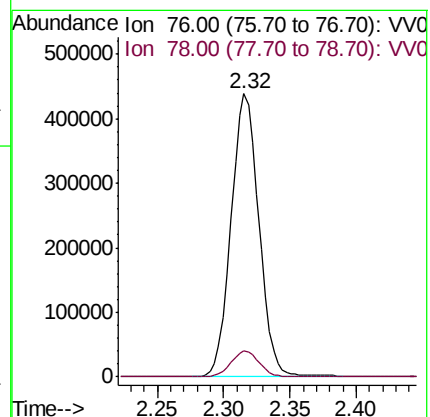
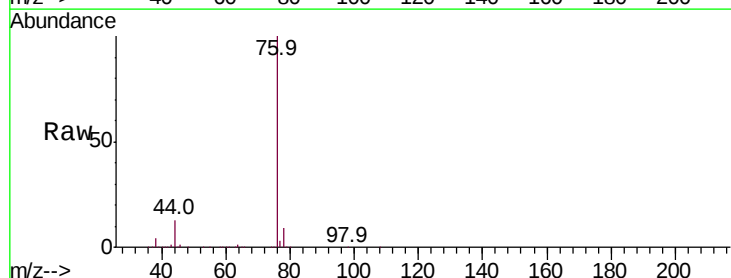
Acq: 04 Oct 2019 10:08

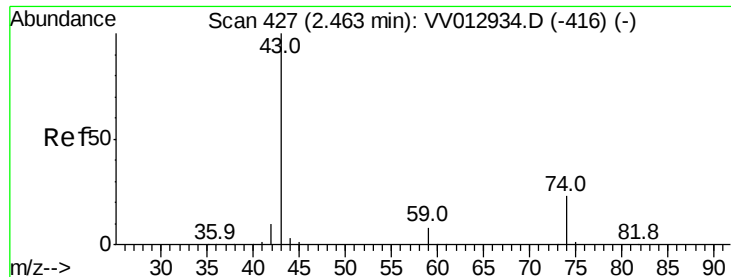
Tgt Ion: 76 Resp: 642409

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#15

Methyl Acetate

Concen: 23.733 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

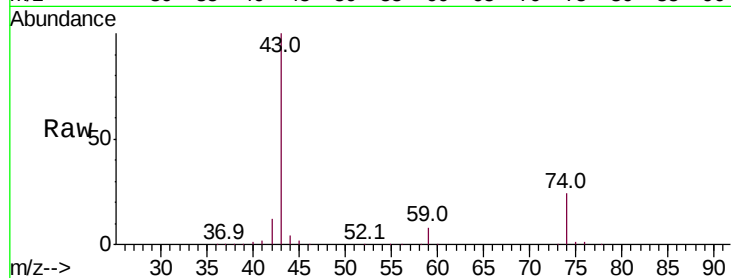
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 155478

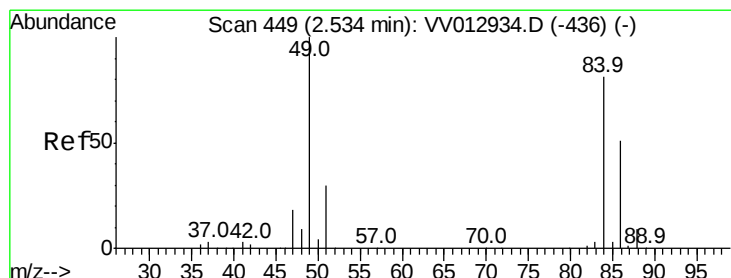
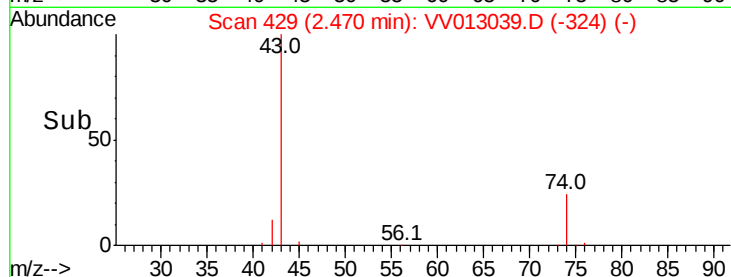
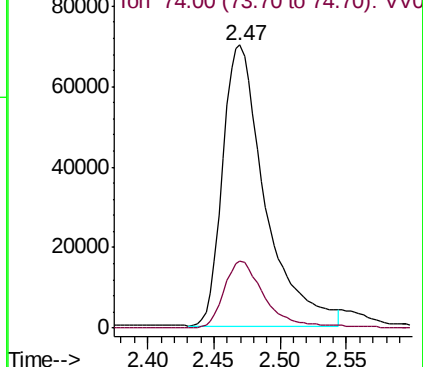
Ion Ratio Lower Upper

43 100

74 22.7 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VV013039.D (-416) (-)



#16

Methylene chloride

Concen: 23.958 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

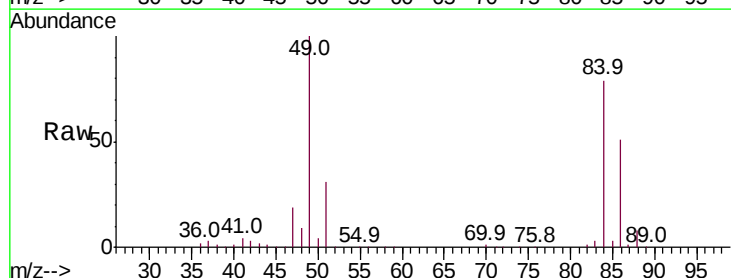
Tgt Ion: 84 Resp: 265642

Ion Ratio Lower Upper

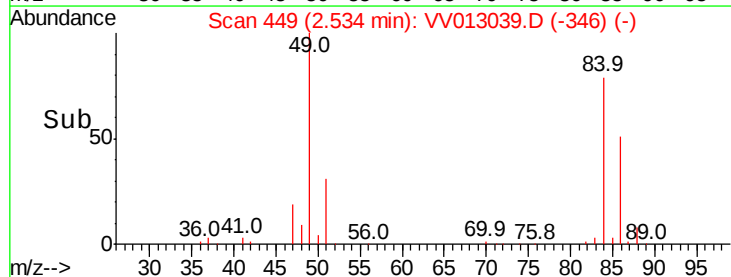
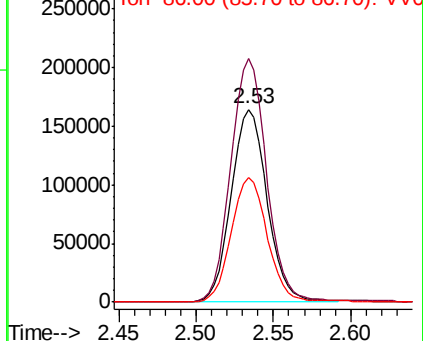
84 100

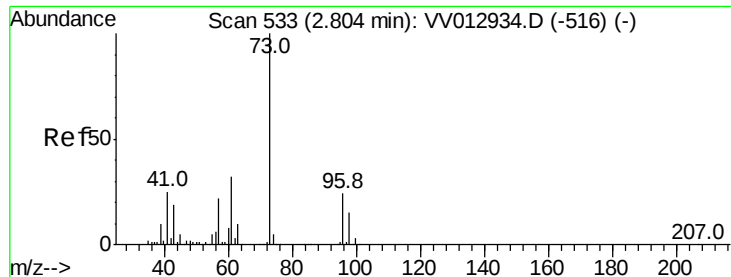
49 126.2 88.3 164.1

86 64.7 44.9 83.3



Abundance Ion 84.00 (83.70 to 84.70): VV013039.D (-436) (-)

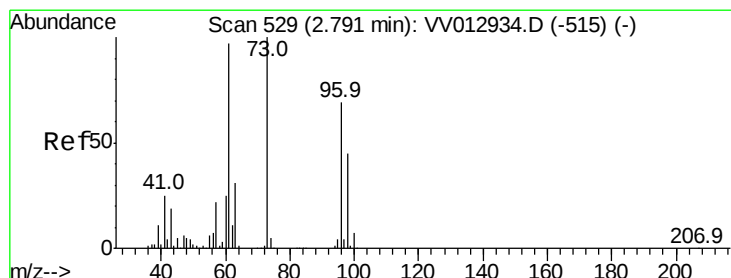
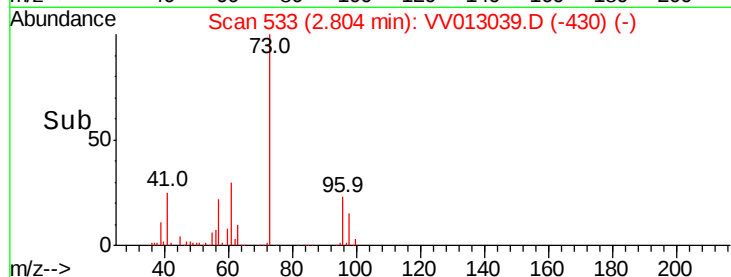
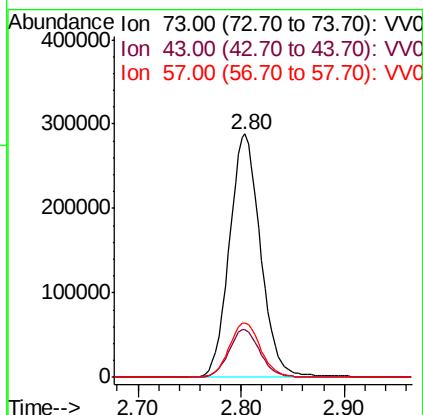
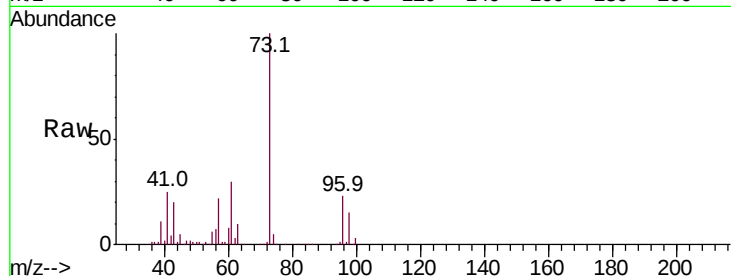




#17
Methvl tert-butvl Ether
Concen: 24.634 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

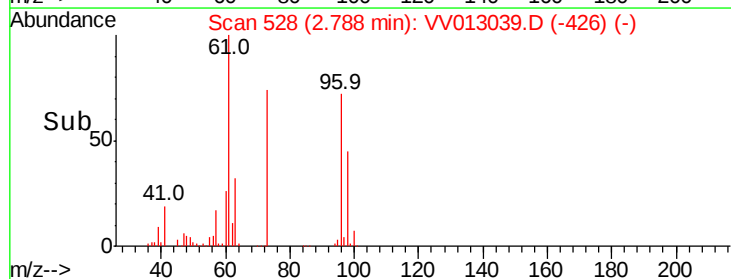
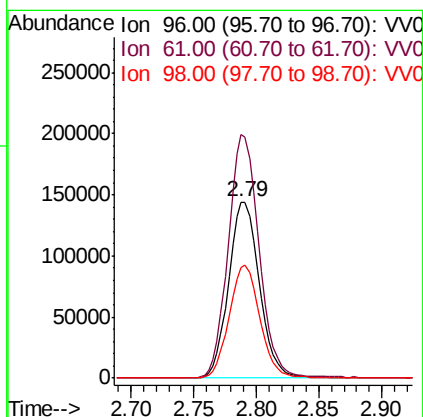
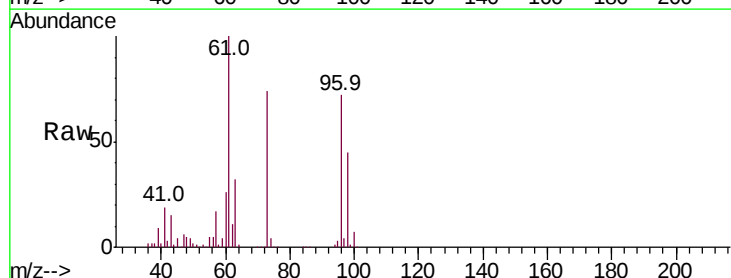
Instrument :
MSVOA_V
ClientSampleId :

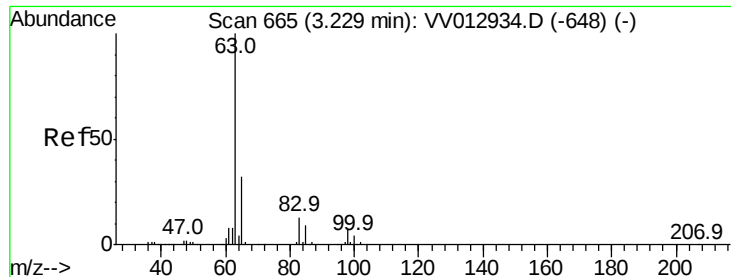
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.4	15.0	22.6
57	22.7	18.3	27.5



#18
trans-1,2-Dichloroethene
Concen: 24.832 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.4	96.8	179.8
98	62.9	44.8	83.2





#19

1,1-Dichloroethane

Concen: 25.254 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

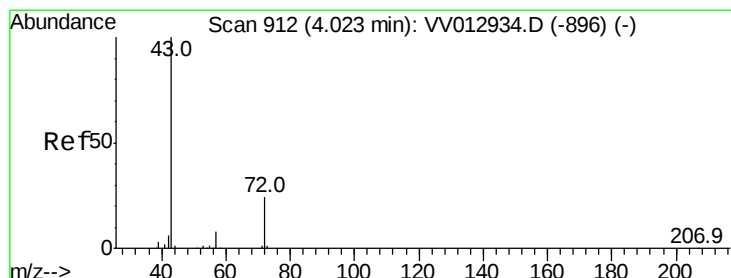
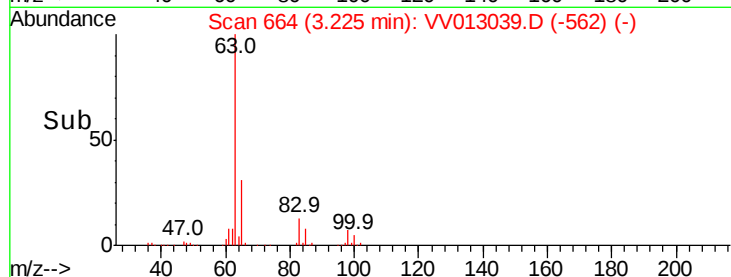
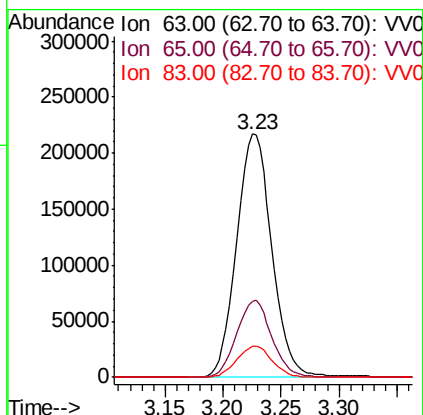
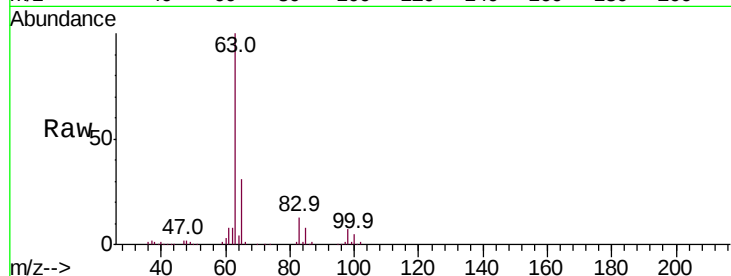
Tot Ion: 63 Resp: 457423

Ion Ratio Lower Upper

63 100

65 31.4 22.0 41.0

83 12.6 9.2 17.0



#21

2-Butanone

Concen: 48.785 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.01 min

Lab File: VV013039.D

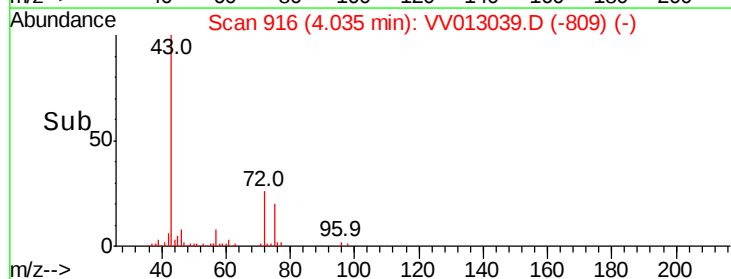
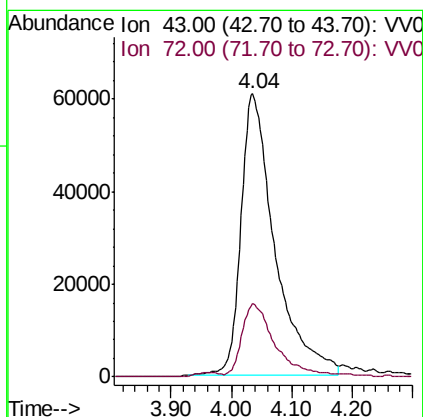
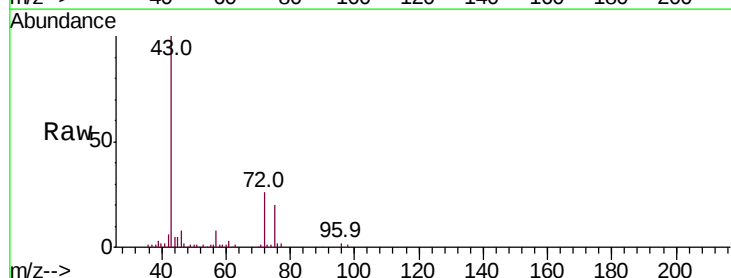
Acq: 04 Oct 2019 10:08

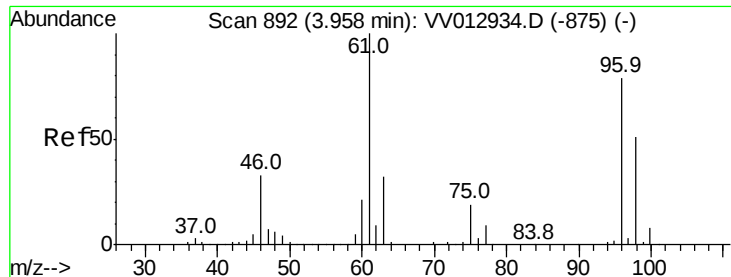
Tgt Ion: 43 Resp: 239811

Ion Ratio Lower Upper

43 100

72 23.7 11.9 35.9



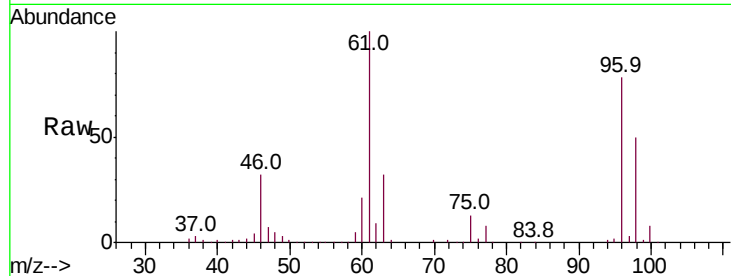


#22

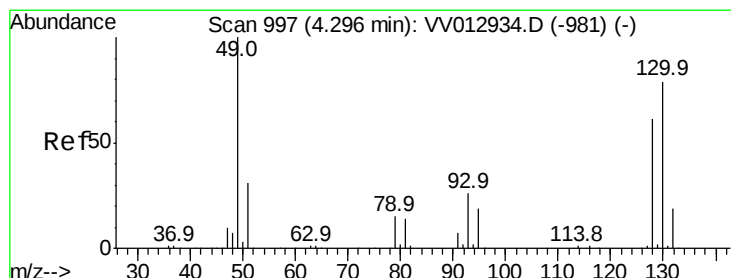
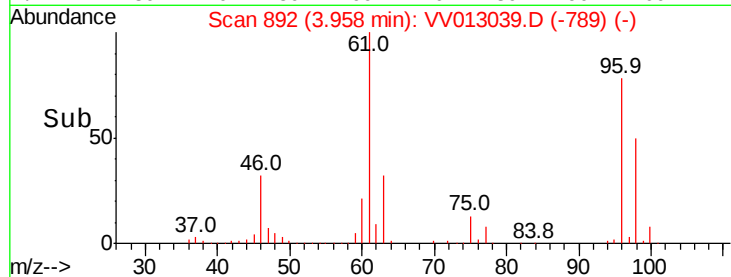
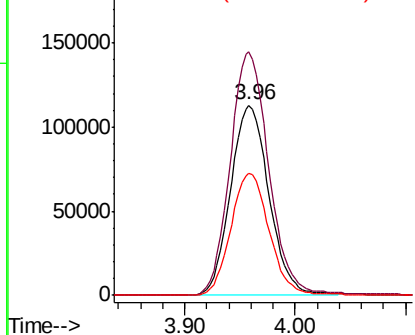
cis-1,2-Dichloroethene
Concen: 25.202 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 273764
Ion Ratio Lower Upper
96 100
61 127.8 90.9 168.7
98 64.2 45.6 84.6



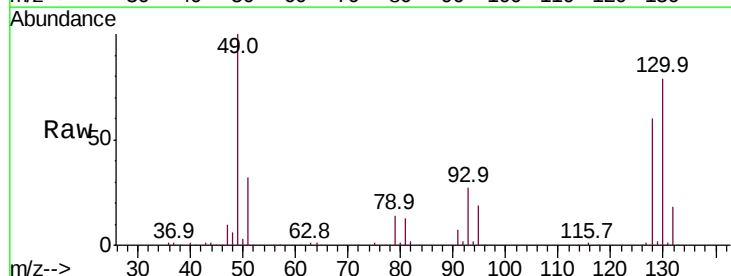
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



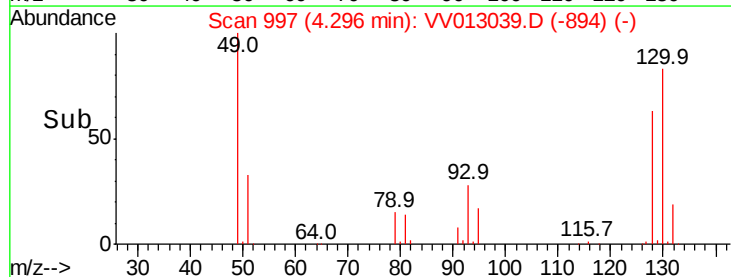
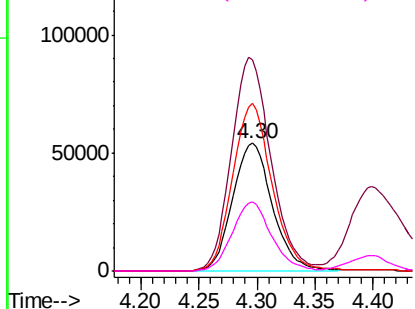
#23

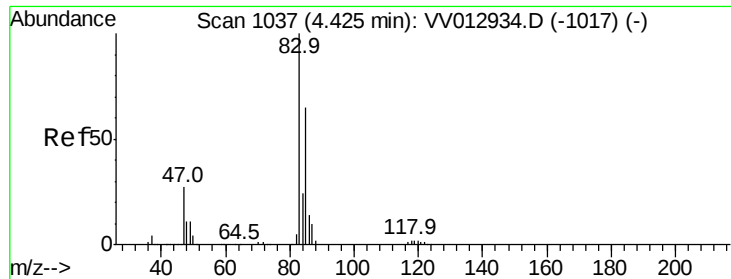
Bromochloromethane
Concen: 24.055 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion: 128 Resp: 129073
Ion Ratio Lower Upper
128 100
49 165.4 114.4 212.6
130 131.2 88.5 164.4
51 53.8 41.4 62.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0





#25

Chloroform

Concen: 24.427 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

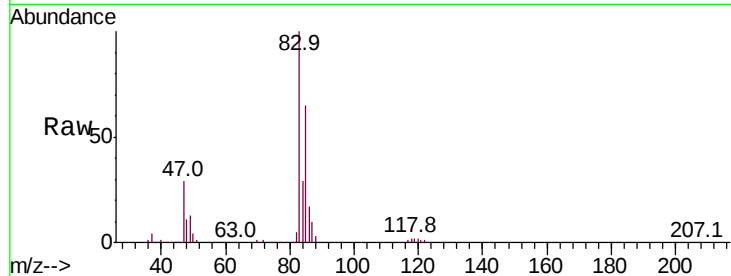
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 463899

Ion Ratio Lower Upper

83 100

85 66.4 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

200000

150000

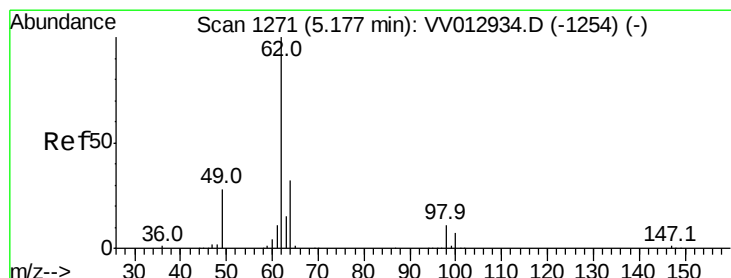
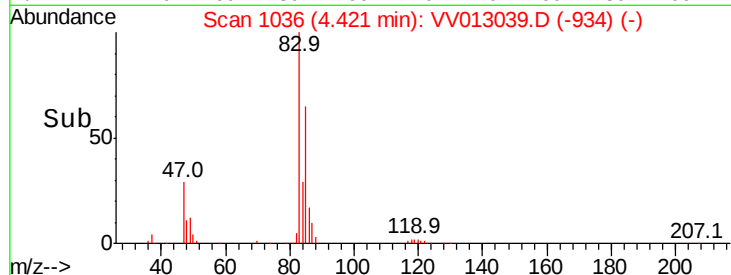
100000

50000

0

4.30 4.40 4.50

Time-->



#27

1,2-Dichloroethane

Concen: 24.182 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV013039.D

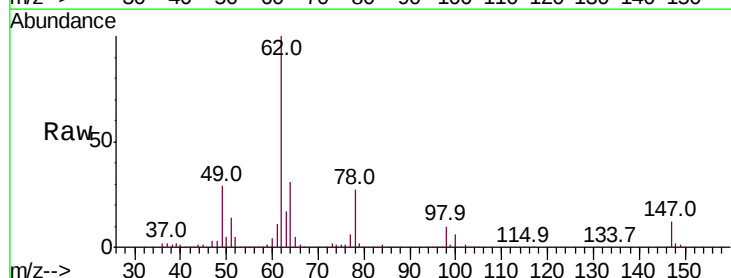
Acq: 04 Oct 2019 10:08

Tgt Ion: 62 Resp: 324596

Ion Ratio Lower Upper

62 100

98 10.1 8.2 12.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

150000

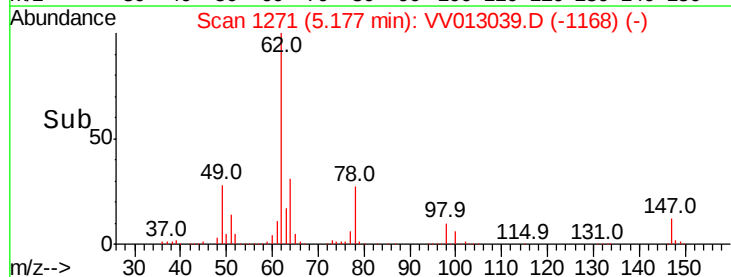
100000

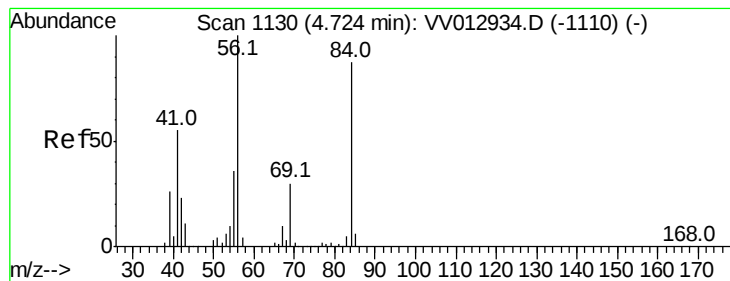
50000

0

5.10 5.20 5.30

Time-->





#30

Cyclohexane

Concen: 25.694 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

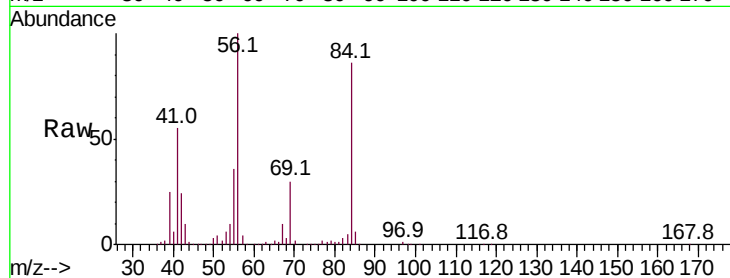
Tot Ion: 56 Resp: 398466

Ion Ratio Lower Upper

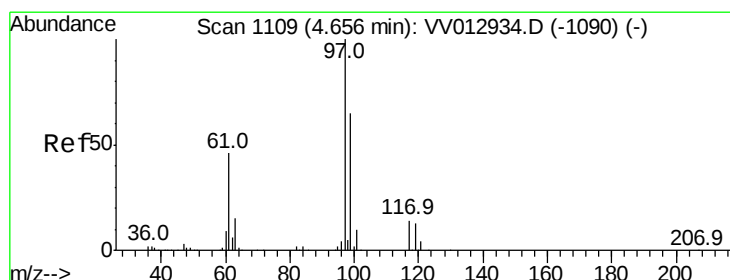
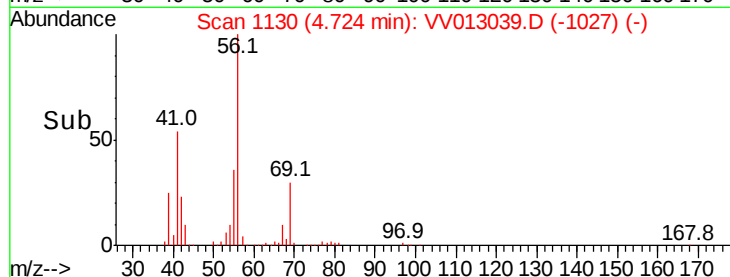
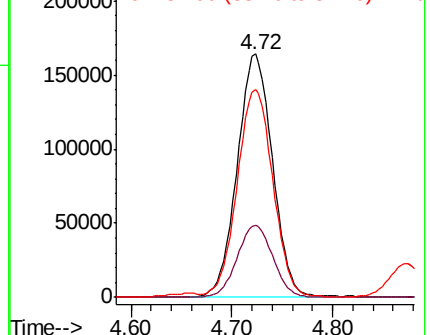
56 100

69 30.0 23.8 35.8

84 85.7 68.4 102.6



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



#31

1,1,1-Trichloroethane

Concen: 26.108 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

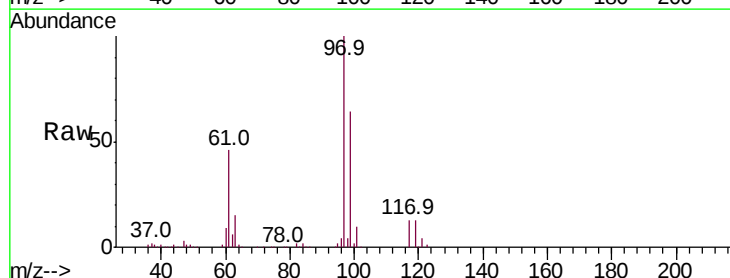
Tgt Ion: 97 Resp: 373510

Ion Ratio Lower Upper

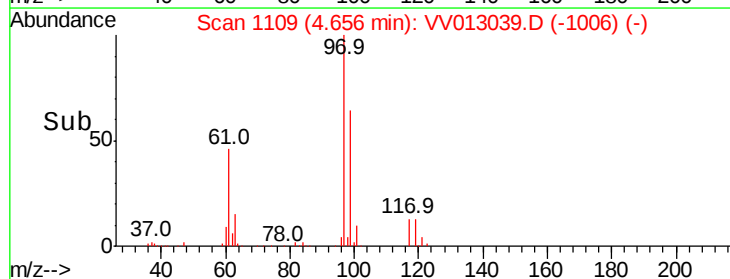
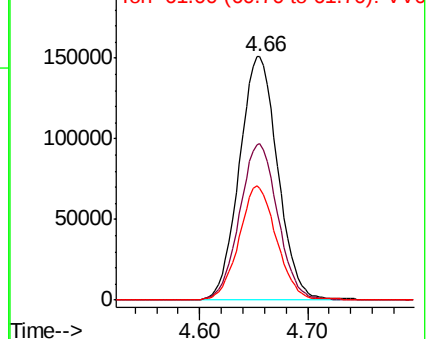
97 100

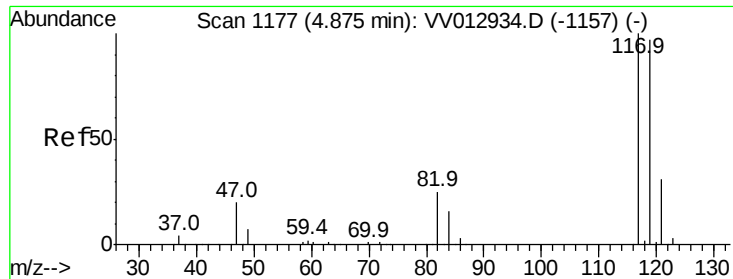
99 63.9 51.7 77.5

61 45.8 37.8 56.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0



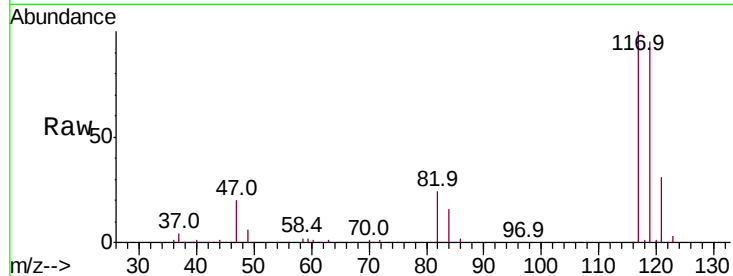


#32

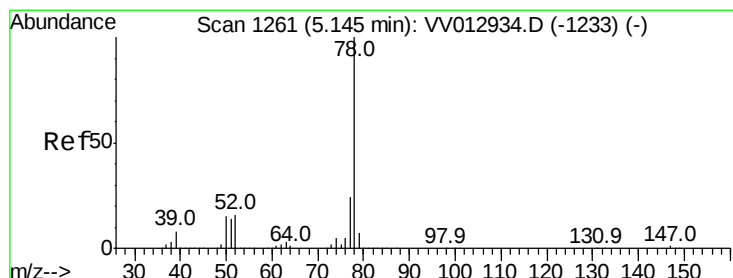
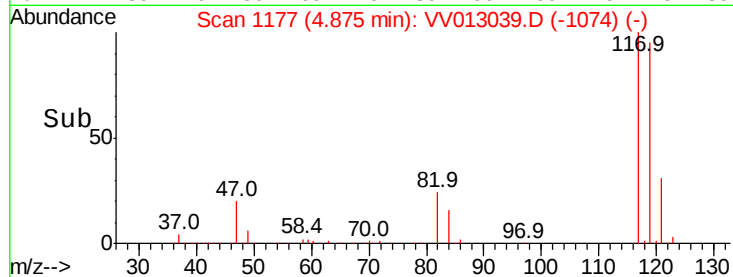
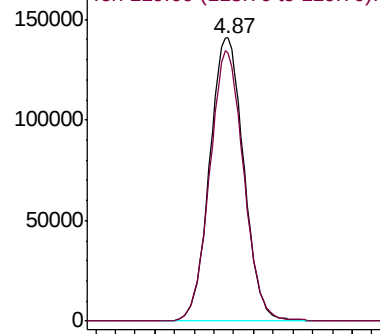
Carbon tetrachloride
Concen: 25.940 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 336489
Ion Ratio Lower Upper
117 100
119 94.8 76.0 114.0



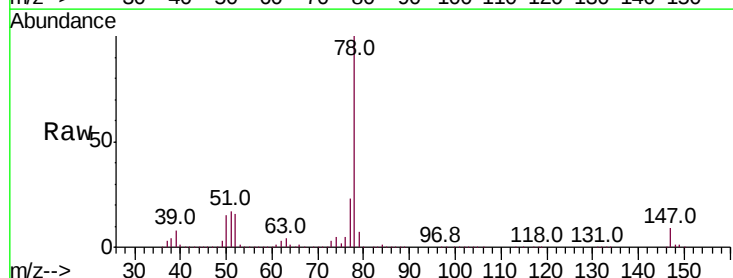
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



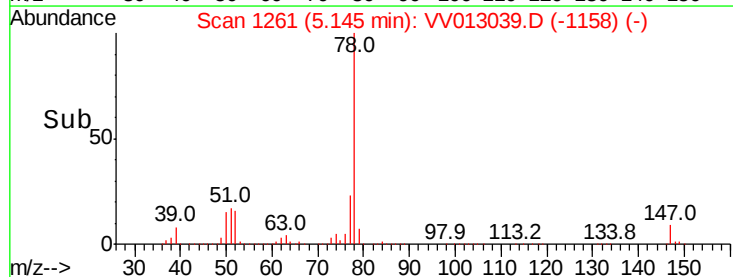
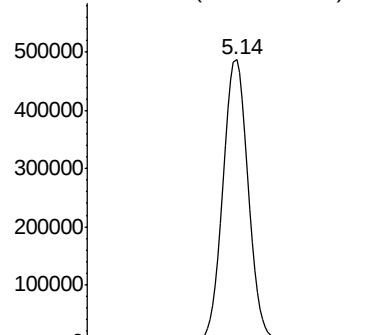
#34

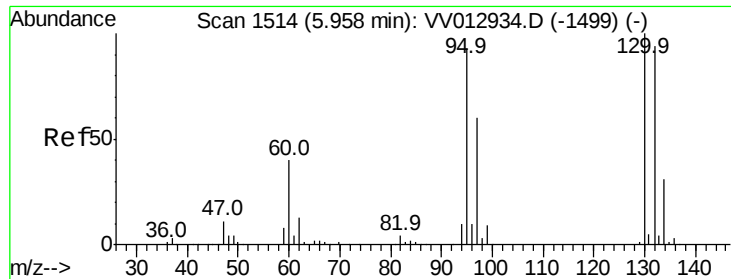
Benzene
Concen: 26.089 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion: 78 Resp: 1049731



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.886 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 278937

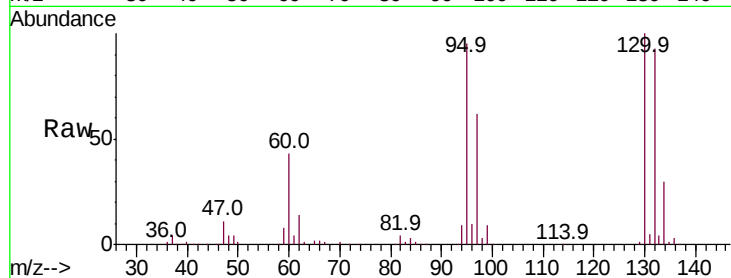
Ion Ratio Lower Upper

95 100

97 65.1 44.7 82.9

132 99.4 70.1 130.1

130 105.4 73.3 136.1

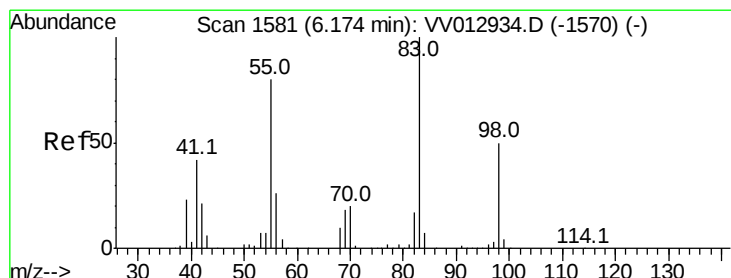
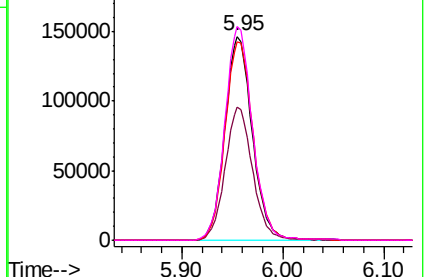
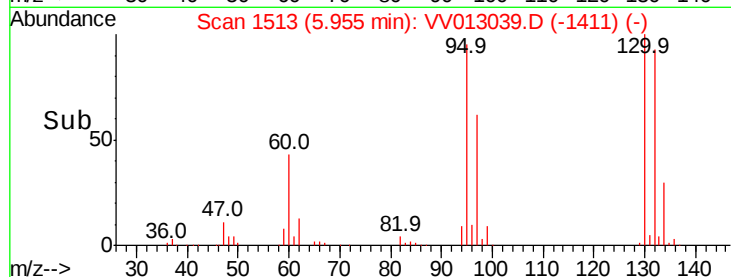


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 25.319 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

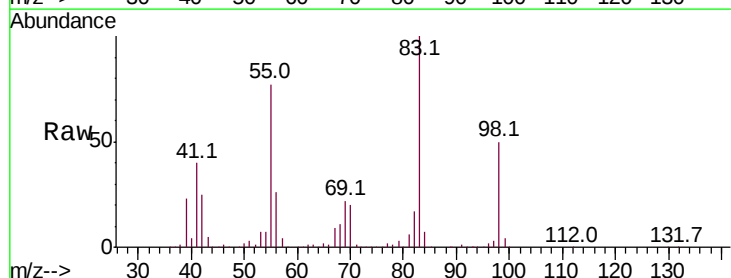
Tgt Ion: 83 Resp: 435654

Ion Ratio Lower Upper

83 100

55 77.2 61.8 92.8

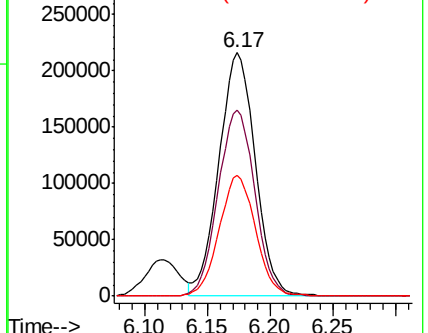
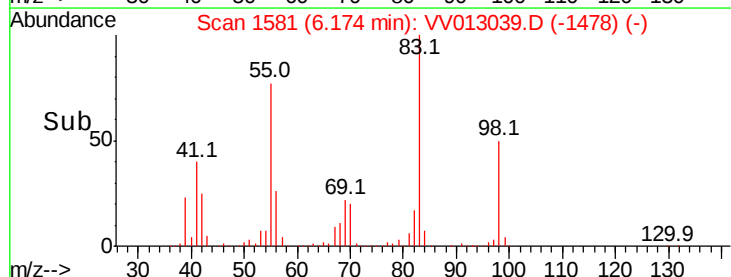
98 49.6 39.3 58.9

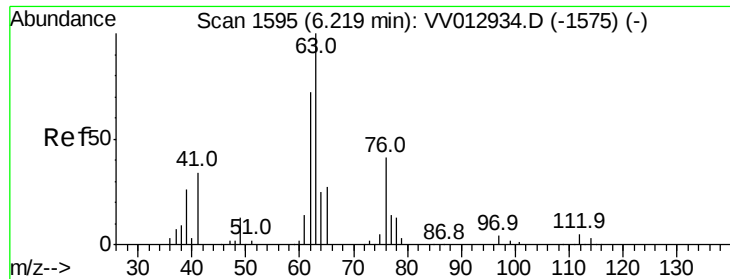


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

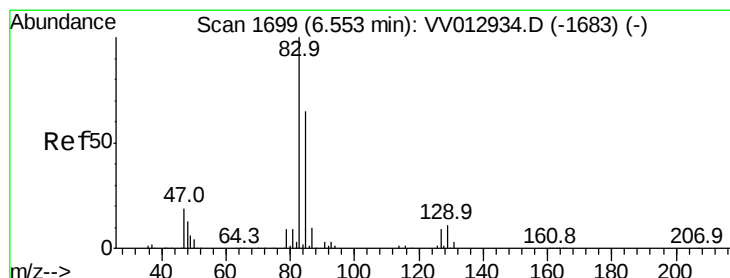
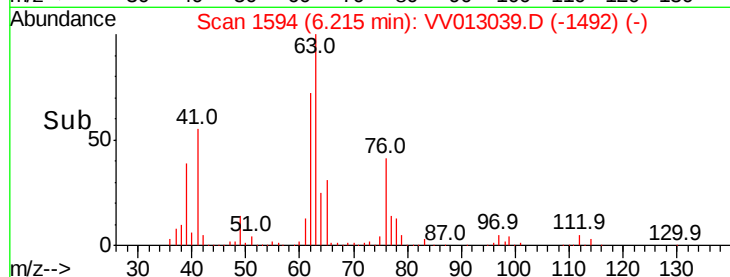
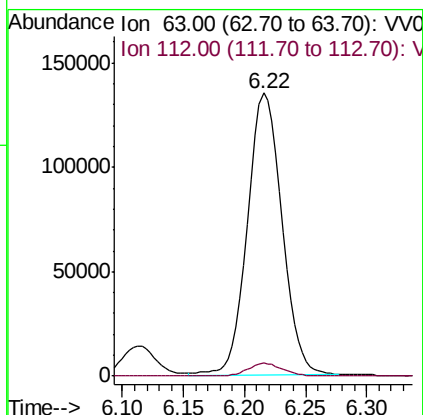
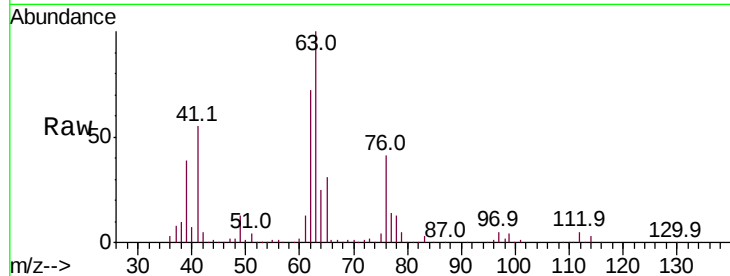




#40
 1,2-Dichloropropane
 Concen: 25.346 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

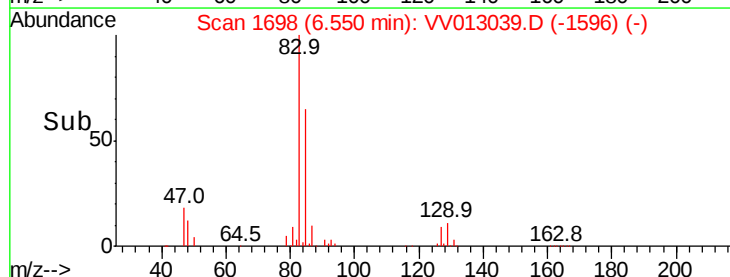
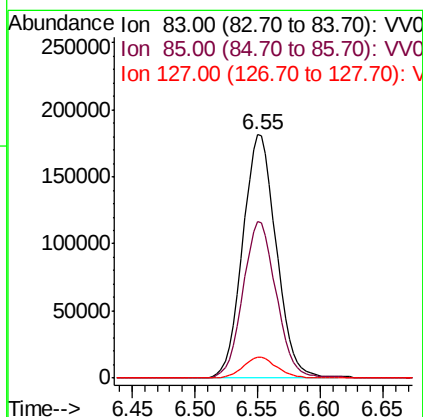
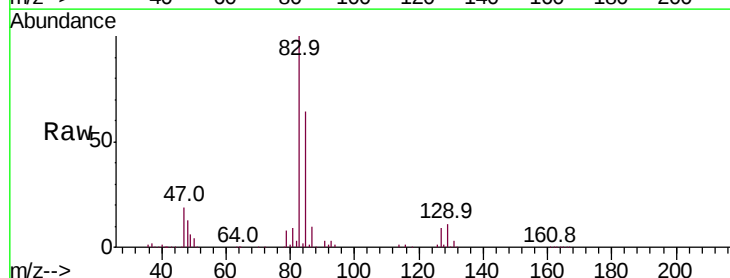
Instrument :
 MSVOA_V
 ClientSampled :

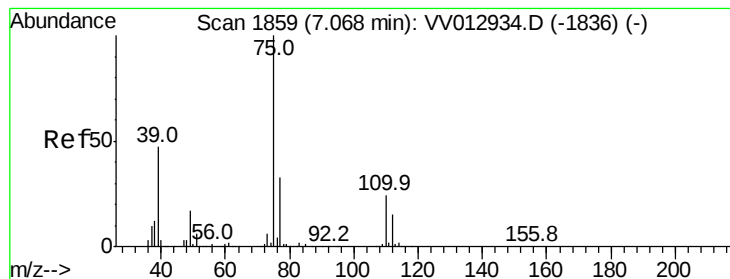
Tot Ion: 63 Resp: 265202
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.8 5.6



#41
 Bromodichloromethane
 Concen: 25.203 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

Tgt Ion: 83 Resp: 337773
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.3 84.1
 127 8.8 7.2 10.8



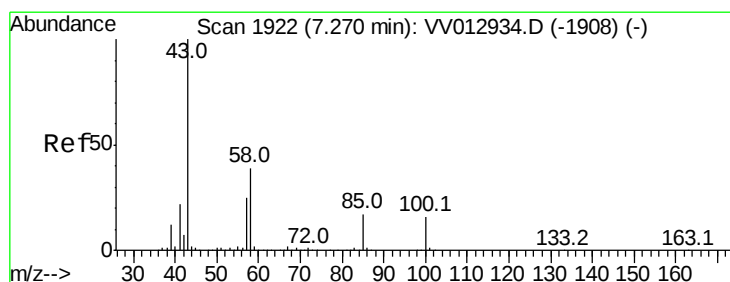
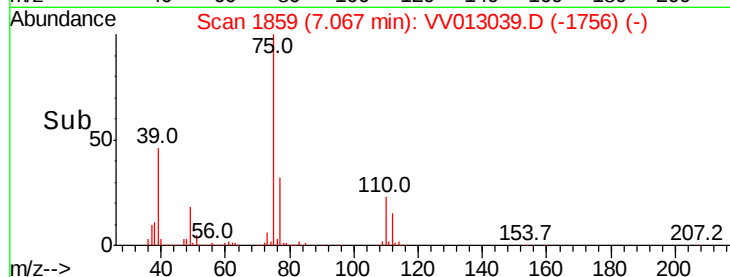
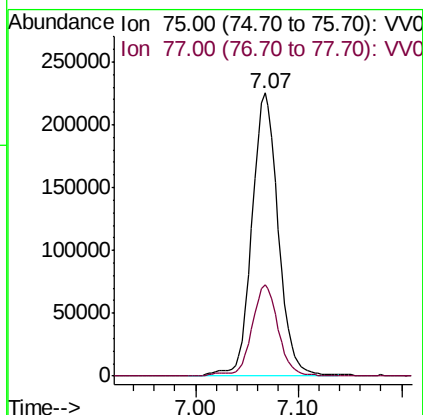
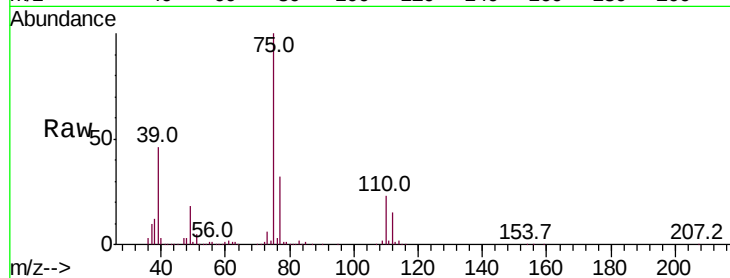


#42

cis-1,3-Dichloropropene
Concen: 25.899 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

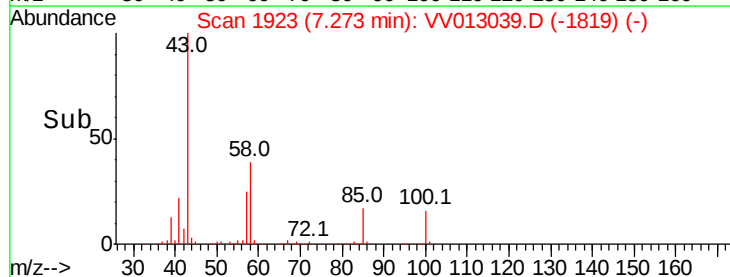
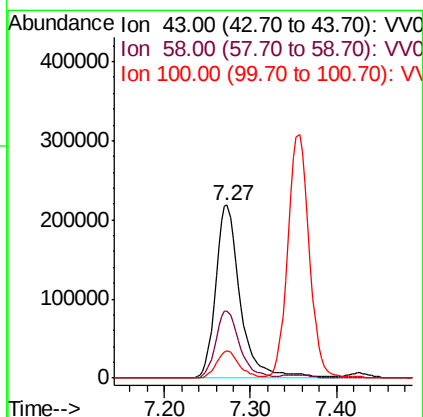
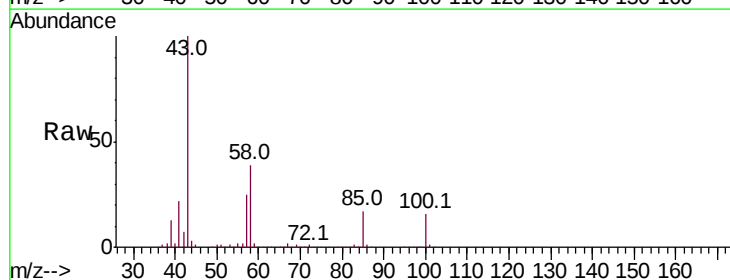
Tot Ion: 75 Resp: 398184
Ion Ratio Lower Upper
75 100
77 32.2 21.5 39.9

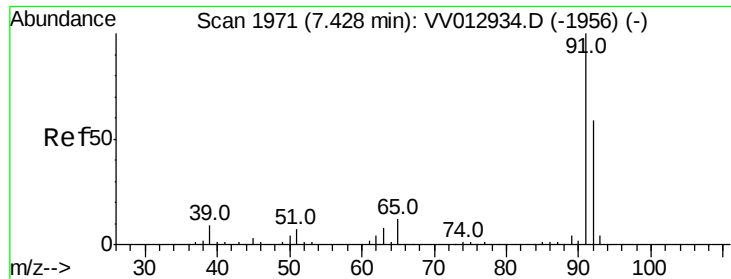


#43

4-Methyl-2-pentanone
Concen: 50.773 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion: 43 Resp: 436484
Ion Ratio Lower Upper
43 100
58 37.8 31.2 46.8
100 14.7 12.2 18.2





#44

Toluene

Concen: 26.551 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

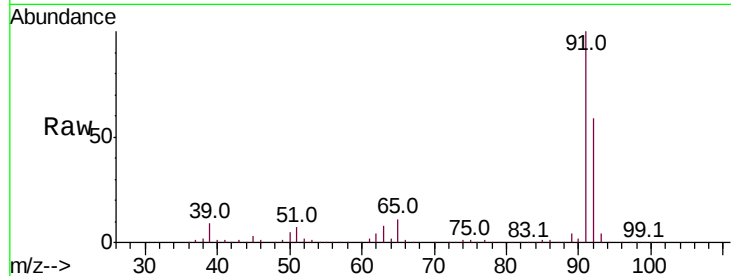
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1126736

Ion Ratio Lower Upper

91 100

92 58.8 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV013039.D (-1868) (-)

Ion 92.00 (91.70 to 92.70): VV013039.D (-1868) (-)

7.43

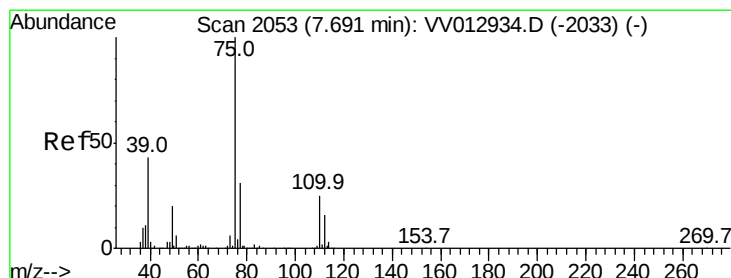
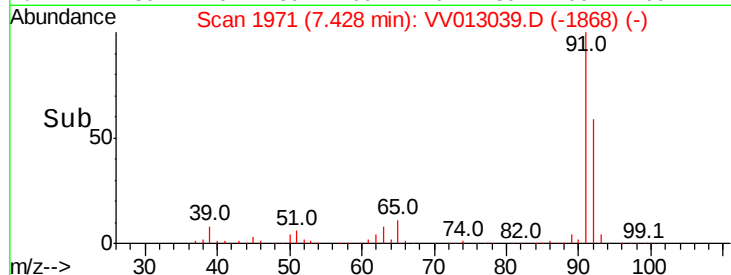
600000

400000

200000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 25.810 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV013039.D

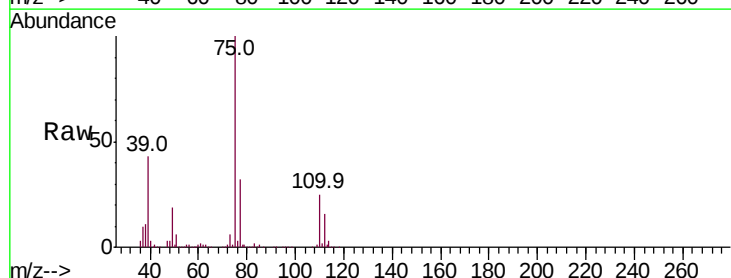
Acq: 04 Oct 2019 10:08

Tgt Ion: 75 Resp: 333977

Ion Ratio Lower Upper

75 100

77 31.6 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV013039.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV013039.D (-1950) (-)

7.69

200000

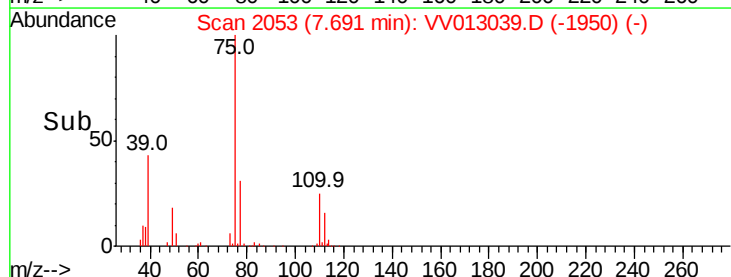
150000

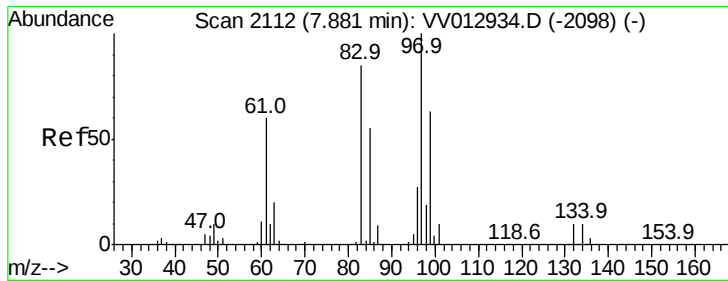
100000

50000

0

Time-->

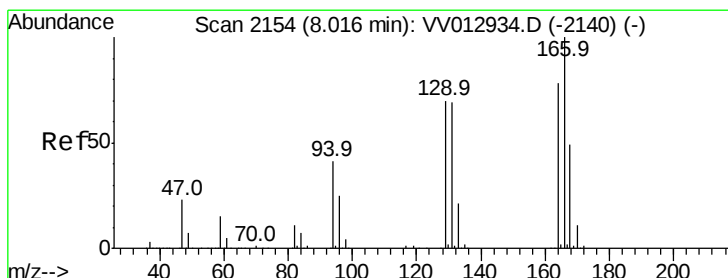
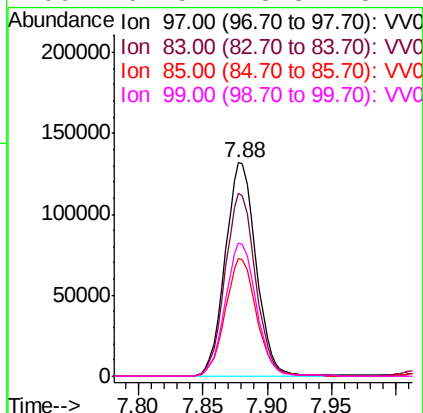
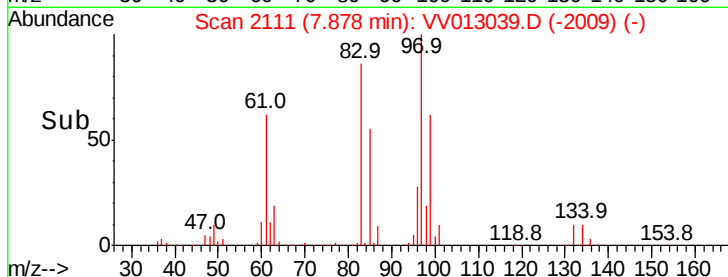
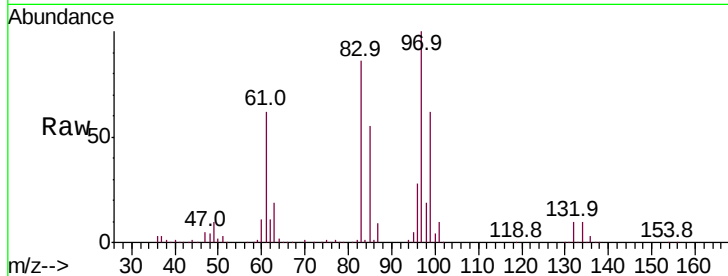




#46
 1,1,2-Trichloroethane
 Concen: 24.811 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

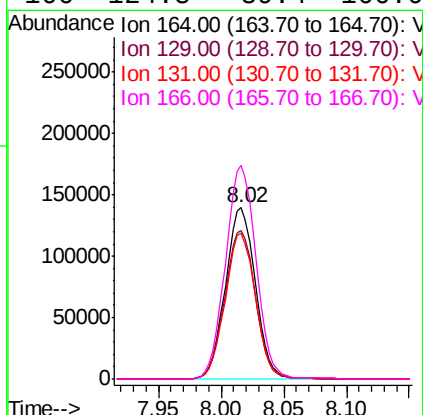
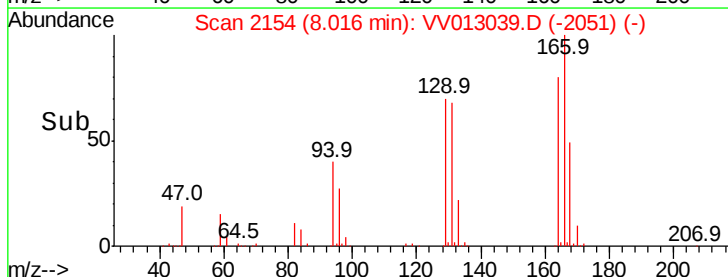
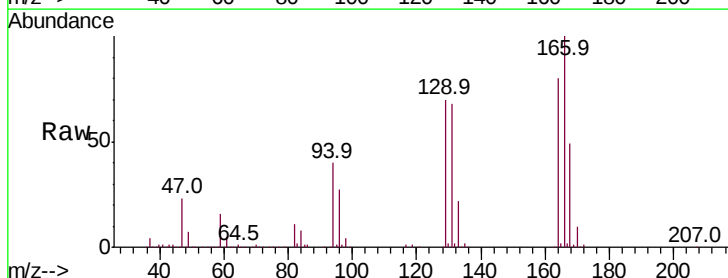
Instrument :
 MSVOA_V
 ClientSampleId :

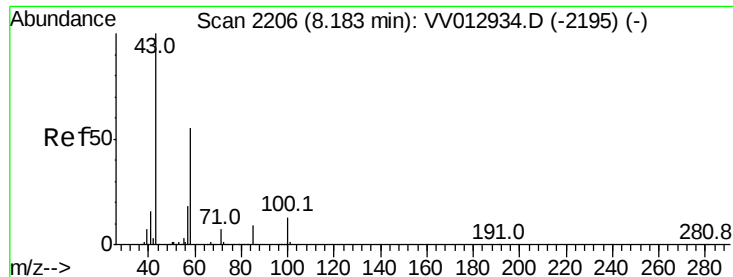
Tot Ion:	97	Resp:	220403
Ion	Ratio	Lower	Upper
97	100		
83	85.8	58.9	109.5
85	55.2	38.4	71.2
99	62.5	43.8	81.4



#47
 Tetrachloroethene
 Concen: 25.499 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

Tgt Ion:	164	Resp:	232296
Ion	Ratio	Lower	Upper
164	100		
129	87.1	62.8	116.6
131	85.5	60.2	111.8
166	124.8	89.4	166.0

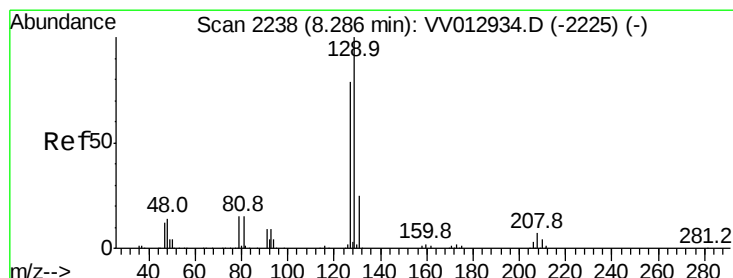
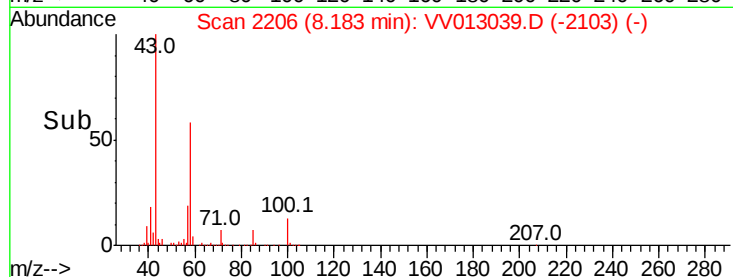
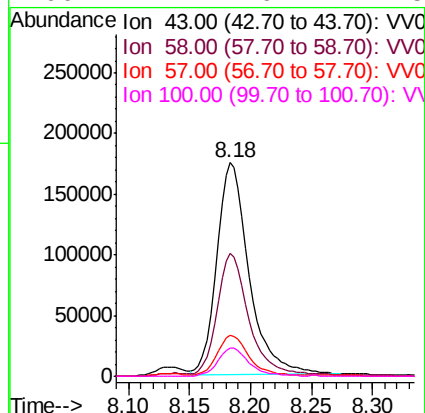
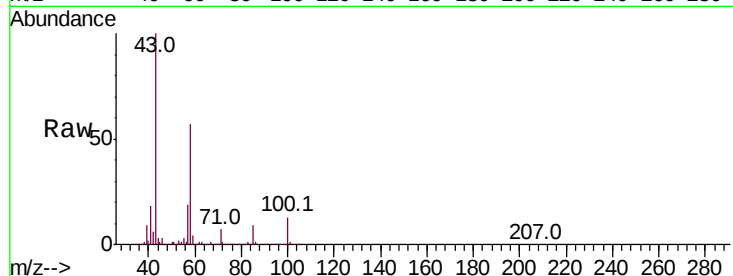




#49
2-Hexanone
Concen: 50.211 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

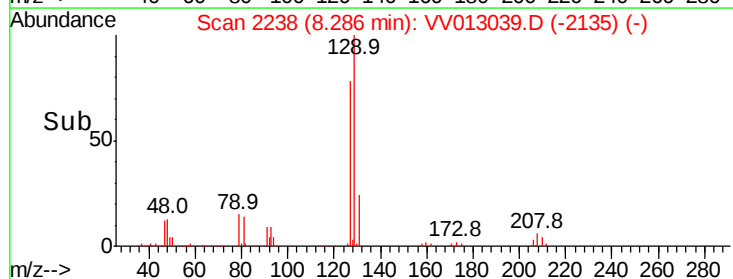
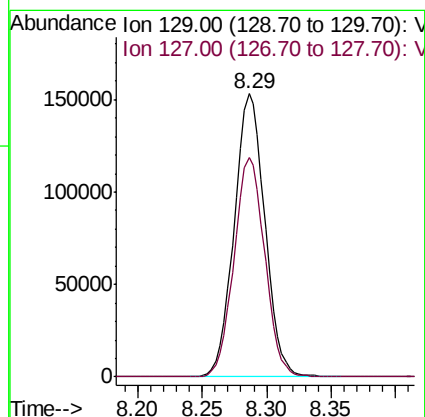
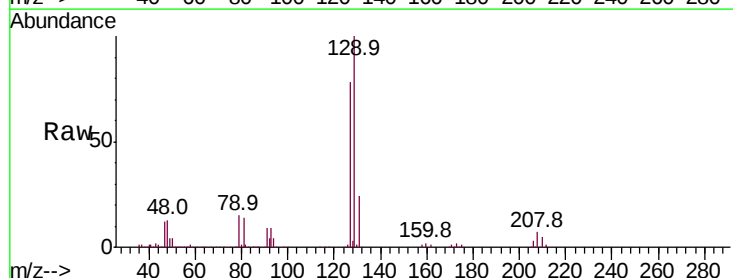
Instrument :
MSVOA_V
ClientSampled :

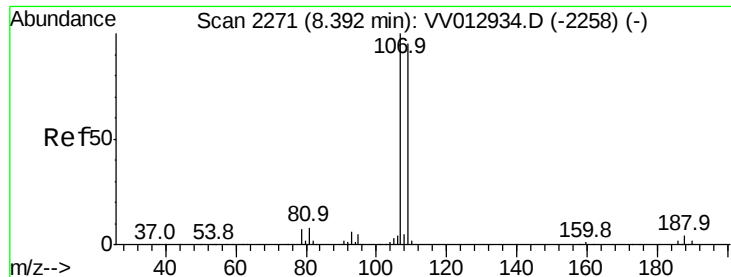
Tot Ion:	43	Resp:	325373
Ion	Ratio	Lower	Upper
43	100		
58	56.9	46.5	69.7
57	17.7	15.5	23.3
100	12.7	9.7	14.5



#50
Dibromochloromethane
Concen: 24.817 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion:	129	Resp:	253375
Ion	Ratio	Lower	Upper
129	100		
127	77.7	53.7	99.7





#51

1,2-Dibromoethane

Concen: 24.877 ug/L

RT: 8.39 min Scan# 2271

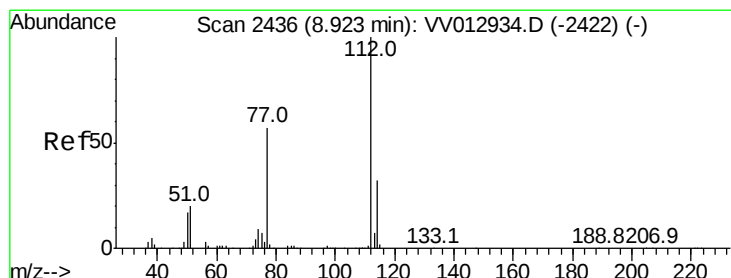
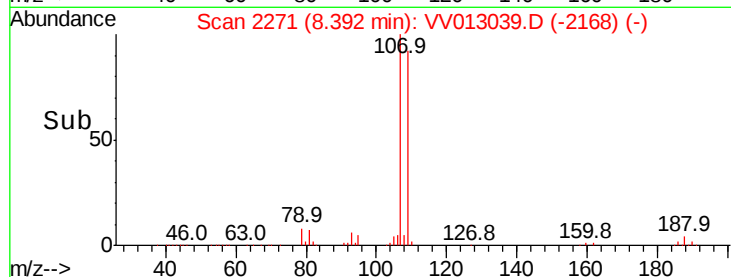
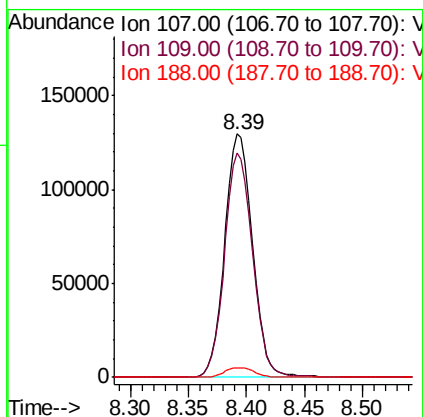
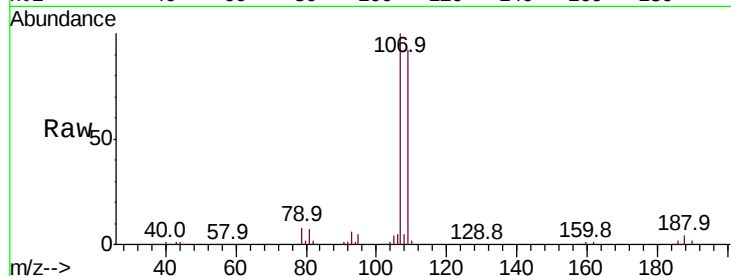
Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	107	Resp:	216559
Ion	Ratio	Lower	Upper
107	100		
109	92.4	66.1	122.8
188	4.1	3.1	4.7



#52

Chlorobenzene

Concen: 25.256 ug/L

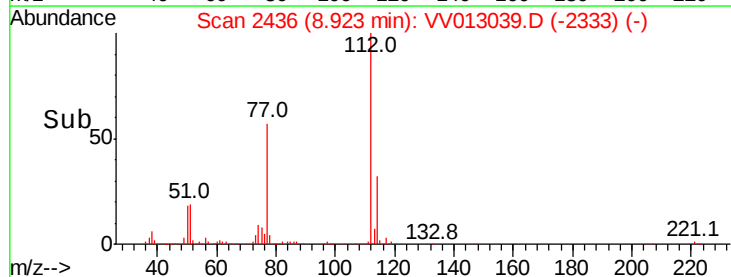
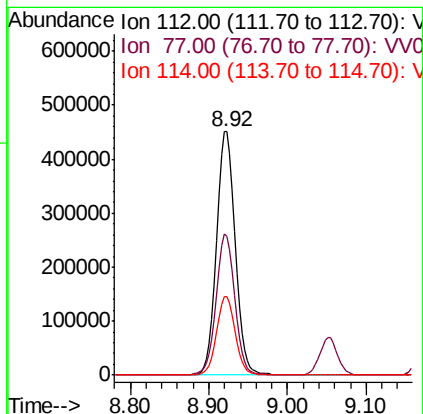
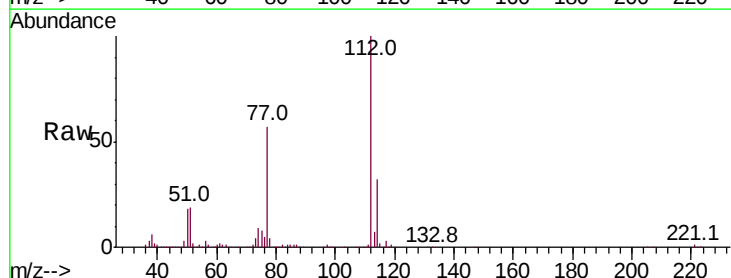
RT: 8.92 min Scan# 2436

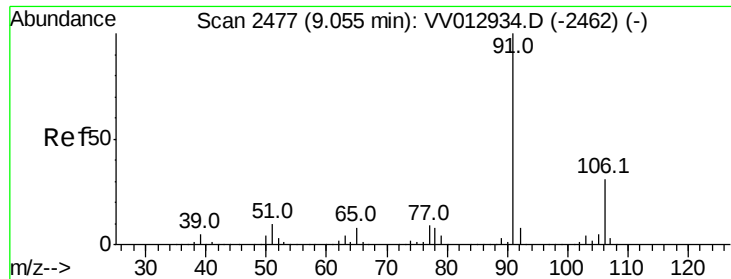
Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Tgt Ion:	112	Resp:	739625
Ion	Ratio	Lower	Upper
112	100		
77	57.2	46.3	69.5
114	32.2	22.5	41.7

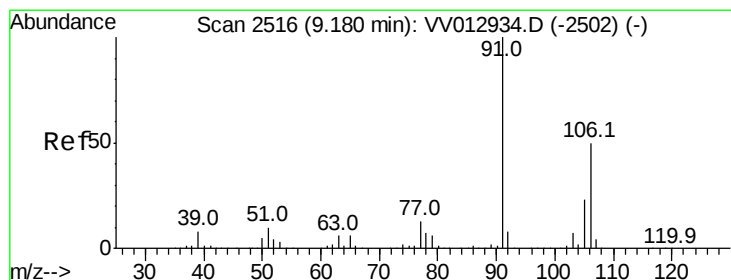
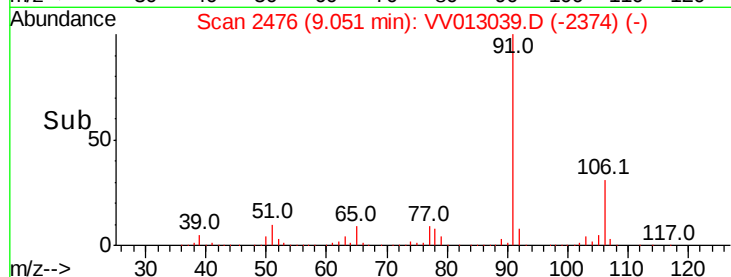
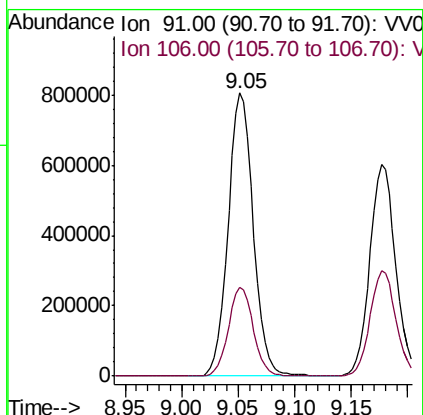
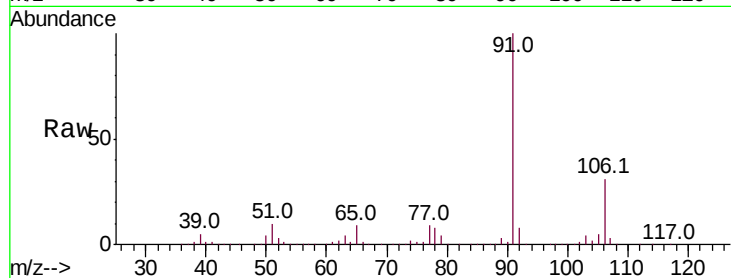




#53
Ethylbenzene
Concen: 26.638 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

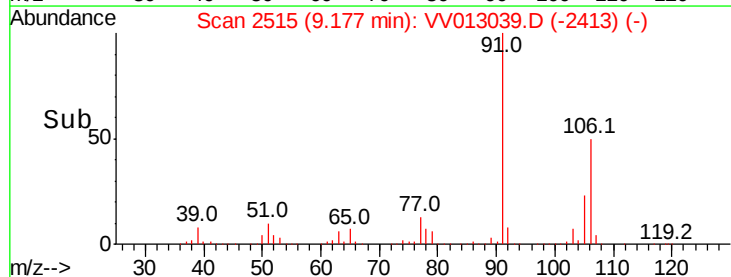
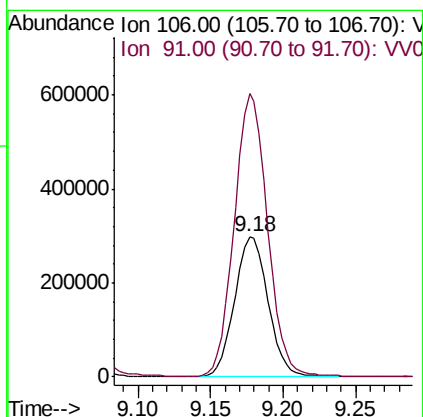
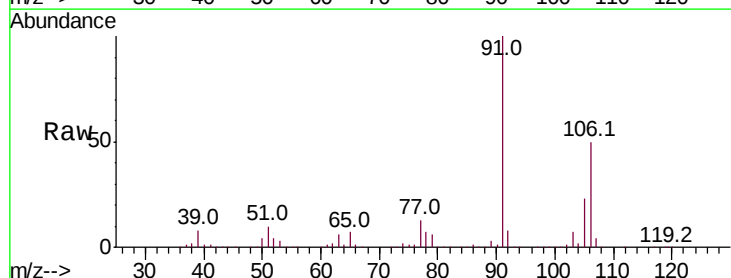
Instrument :
MSVOA_V
ClientSampleId :

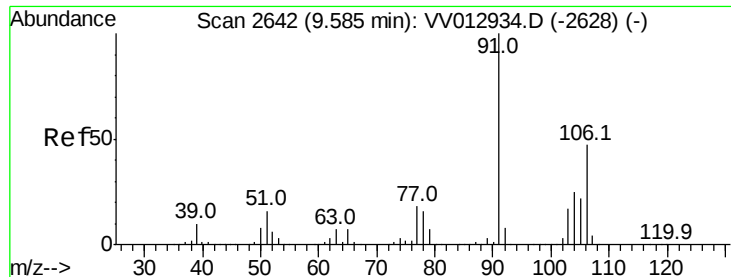
Tot Ion: 91 Resp: 1244659
Ion Ratio Lower Upper
91 100
106 31.2 21.8 40.4



#54
m,p-Xylene
Concen: 26.831 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV013039.D
Acq: 04 Oct 2019 10:08

Tgt Ion: 106 Resp: 476612
Ion Ratio Lower Upper
106 100
91 201.3 140.1 260.3





#55

o-xylene

Concen: 26.865 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

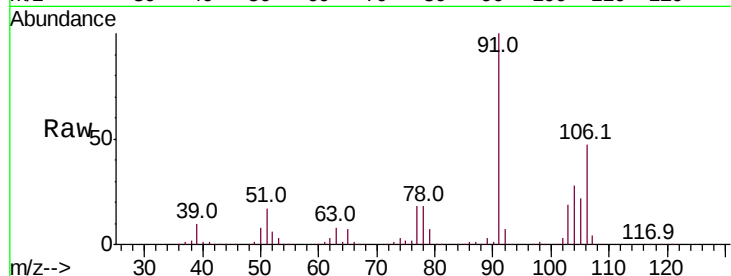
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 454685

Ion Ratio Lower Upper

106 100

91 213.4 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): VV013039.D (-2539) (-)

Ion 91.00 (90.70 to 91.70): VV013039.D (-2539) (-)

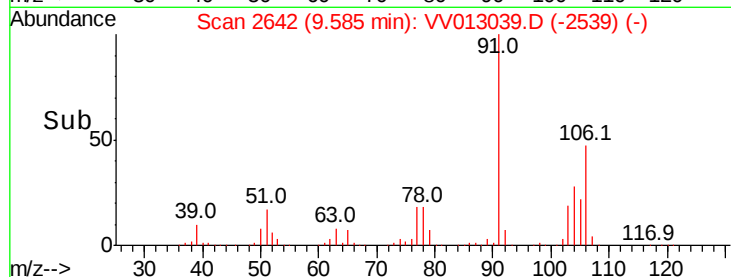
600000

400000

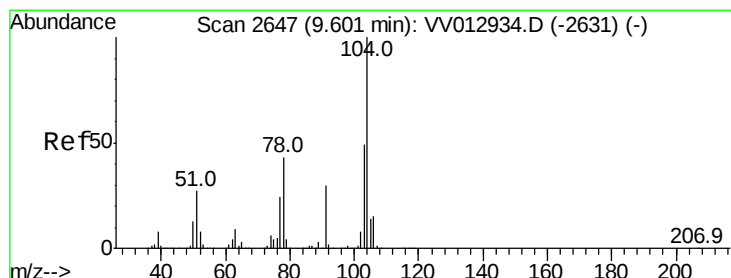
200000

0

9.50 9.60 9.70



Time-->



#56

Styrene

Concen: 27.378 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013039.D

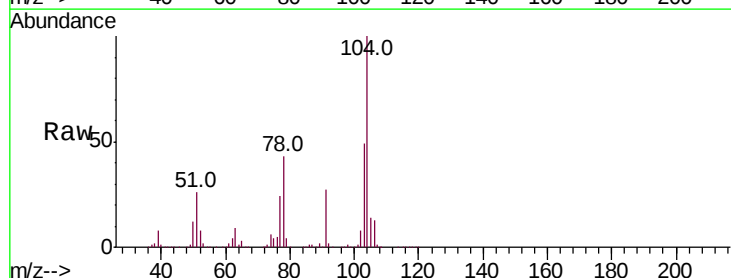
Acq: 04 Oct 2019 10:08

Tgt Ion:104 Resp: 815306

Ion Ratio Lower Upper

104 100

78 42.7 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): VV013039.D (-2544) (-)

Ion 78.00 (77.70 to 78.70): VV013039.D (-2544) (-)

600000

500000

400000

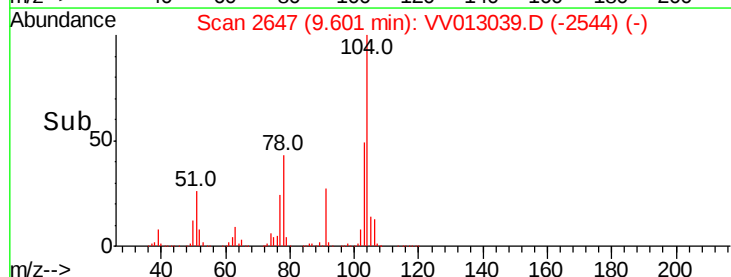
300000

200000

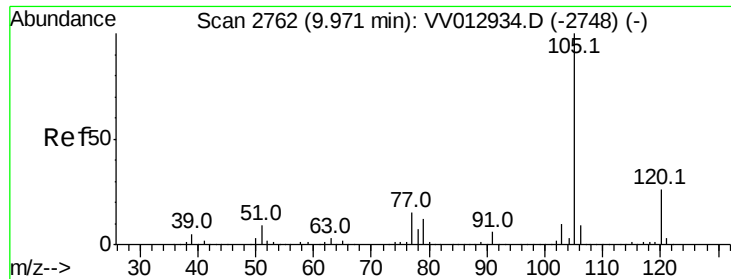
100000

0

9.50 9.60 9.70



Time-->



#57

Isopropylbenzene

Concen: 27.518 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :
MSVOA_V
ClientSampled :

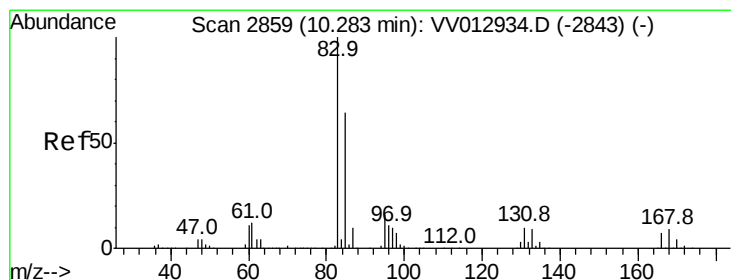
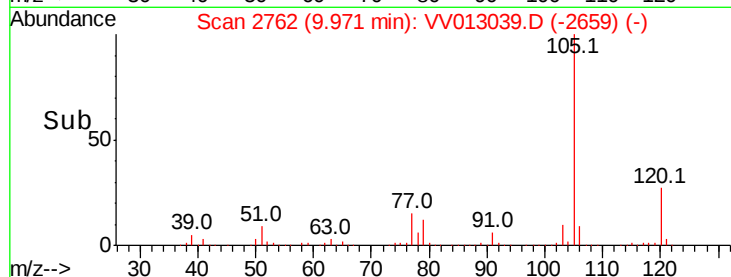
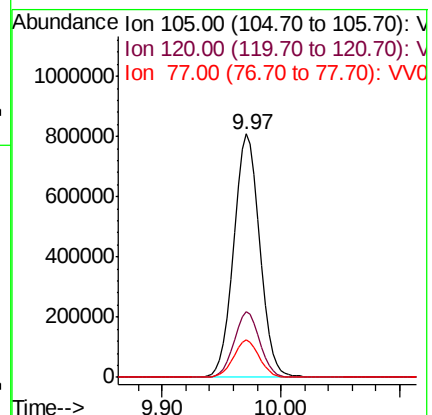
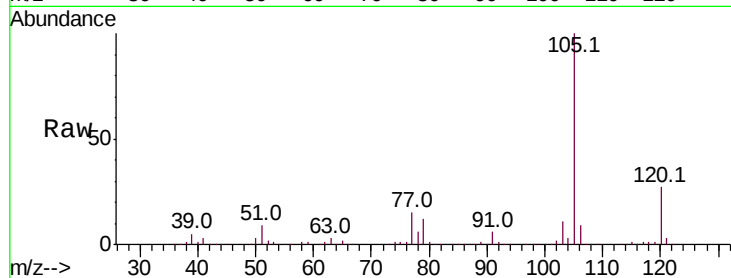
Tot Ion:105 Resp: 1223988

Ion Ratio Lower Upper

105 100

120 26.5 21.4 32.0

77 15.2 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 24.394 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

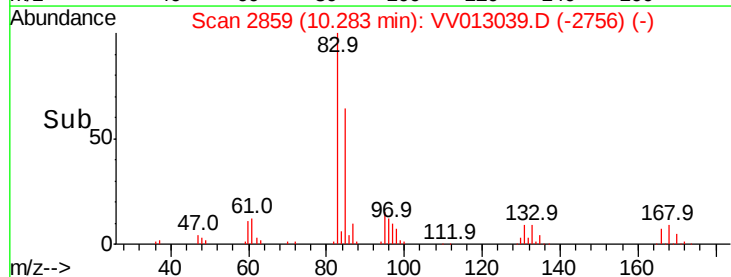
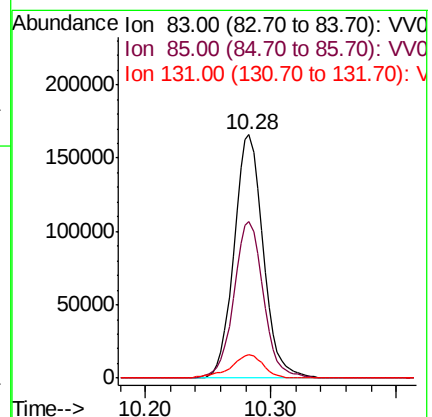
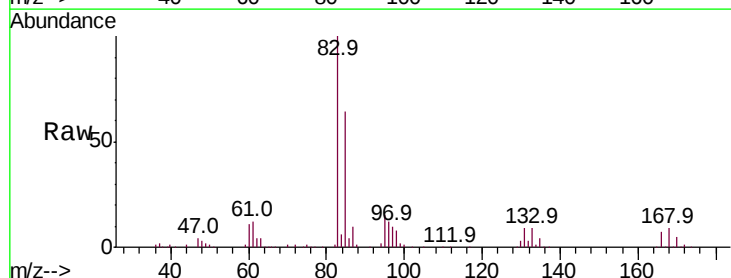
Tgt Ion: 83 Resp: 268046

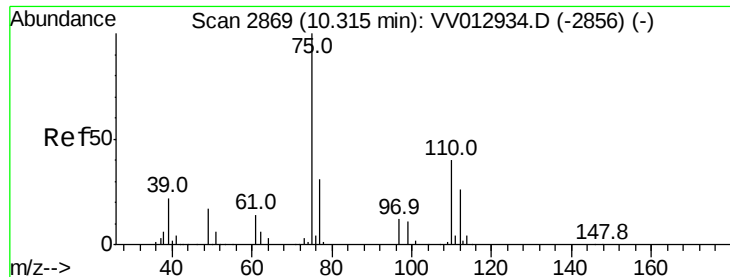
Ion Ratio Lower Upper

83 100

85 64.3 45.4 84.2

131 9.5 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 23.769 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

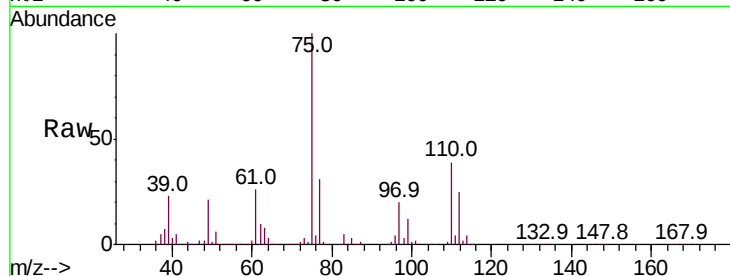
ClientSampleId :

Tot Ion: 75 Resp: 215573

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

10.31

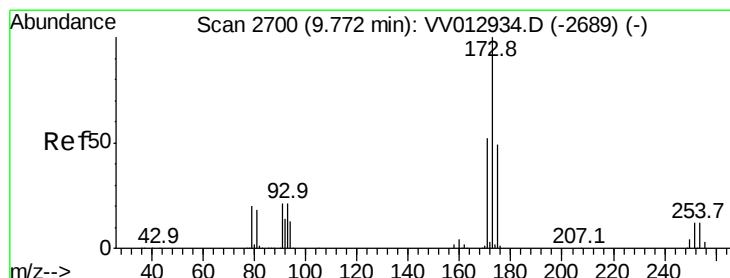
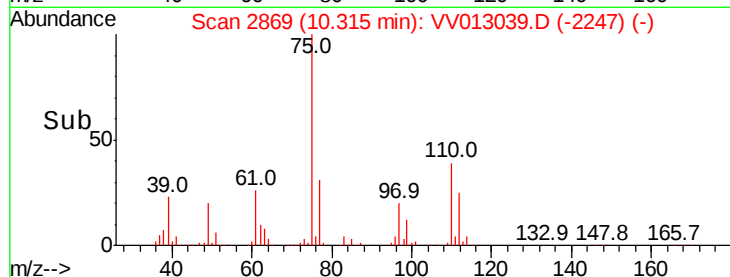
150000

100000

50000

0

Time--> 10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 24.323 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

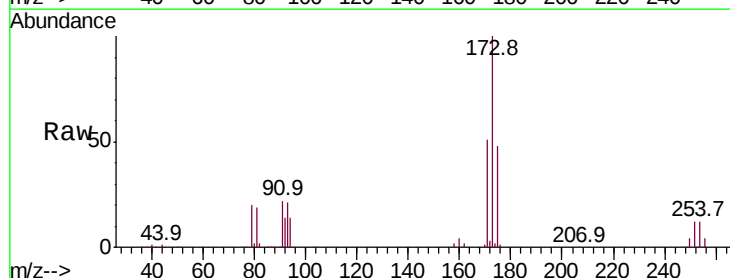
Tgt Ion:173 Resp: 161377

Ion Ratio Lower Upper

173 100

175 48.4 39.5 59.3

254 11.4 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

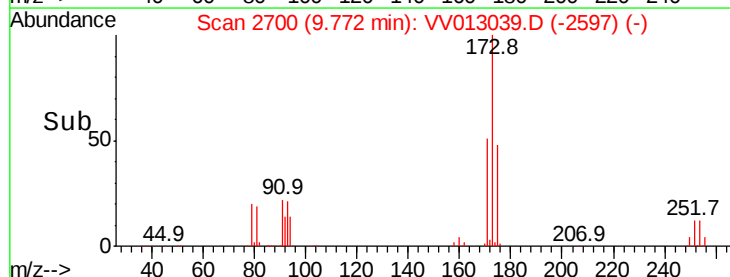
9.77

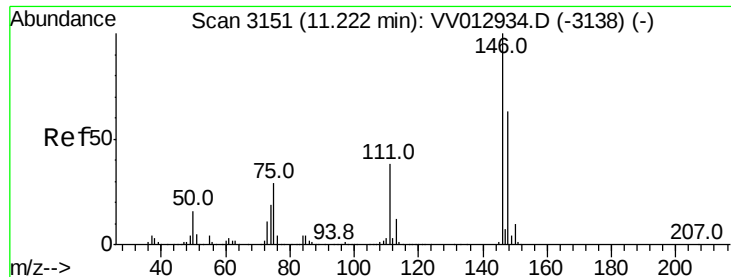
100000

50000

0

Time--> 9.70 9.75 9.80 9.85





#63

1,3-Dichlorobenzene

Concen: 25.536 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

ClientSampled :

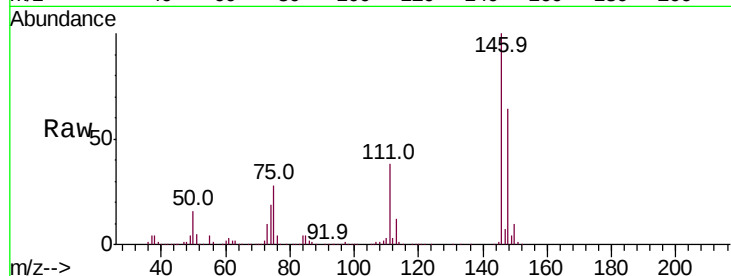
Tot Ion:146 Resp: 614552

Ion Ratio Lower Upper

146 100

111 38.3 26.7 49.7

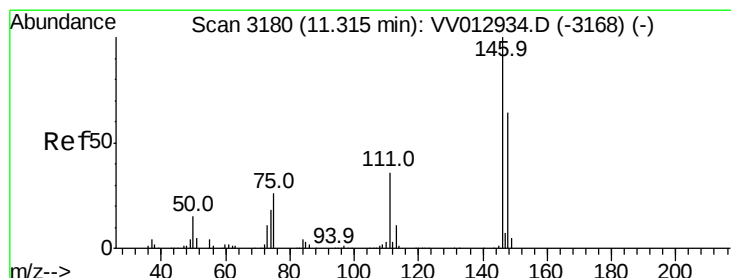
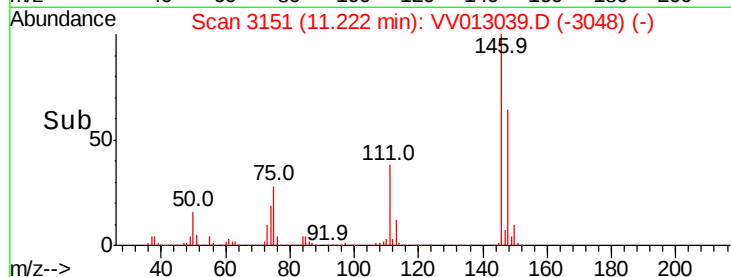
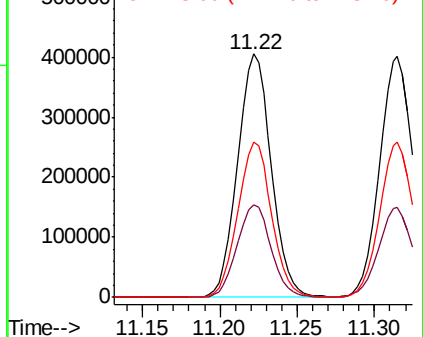
148 63.6 43.9 81.5



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



#64

1,4-Dichlorobenzene

Concen: 24.509 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

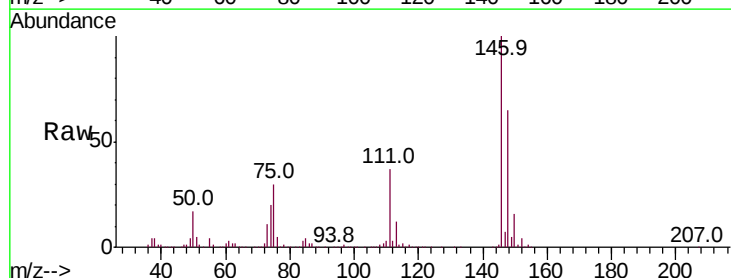
Tgt Ion:146 Resp: 619053

Ion Ratio Lower Upper

146 100

111 37.3 25.5 47.3

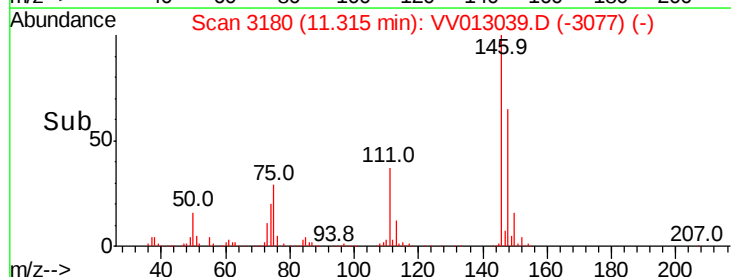
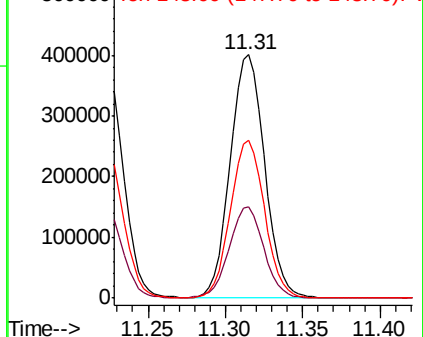
148 64.6 45.1 83.9

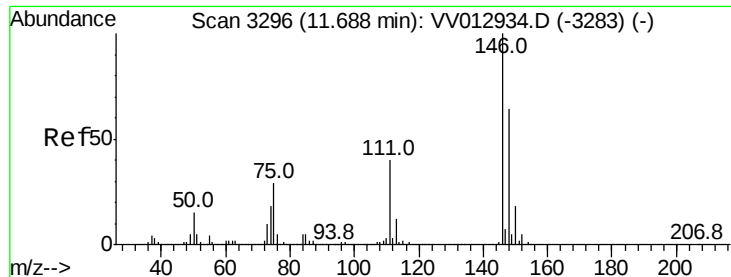


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.858 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

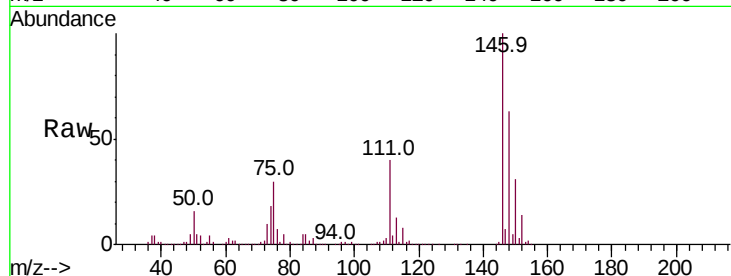
Tot Ion:146 Resp: 570627

Ion Ratio Lower Upper

146 100

111 40.1 31.9 47.9

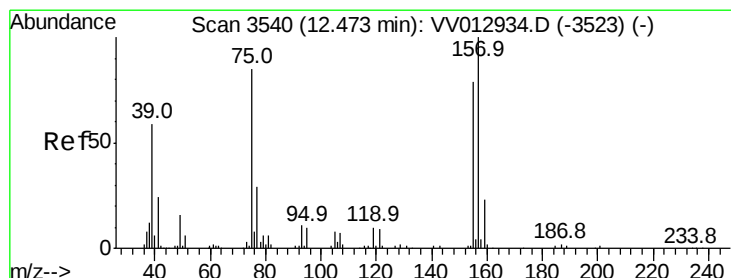
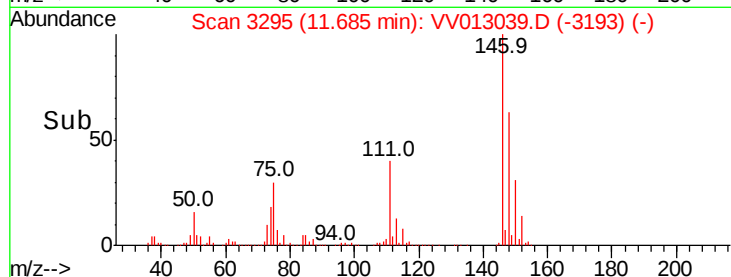
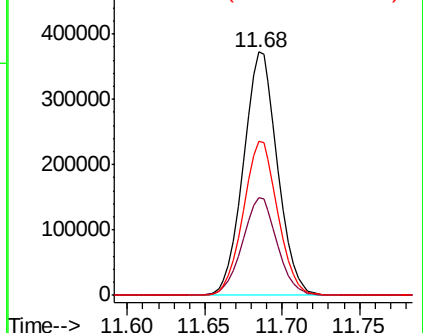
148 63.0 51.0 76.6



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: 22.675 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

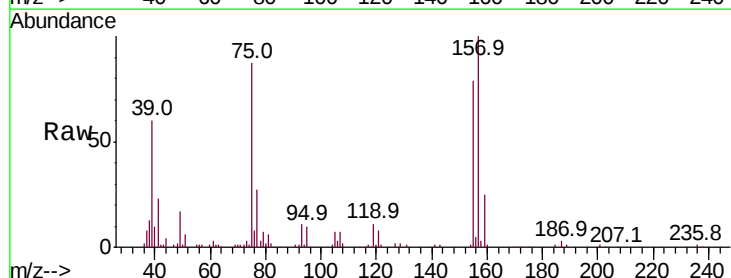
Tgt Ion: 75 Resp: 46149

Ion Ratio Lower Upper

75 100

157 115.3 91.7 137.5

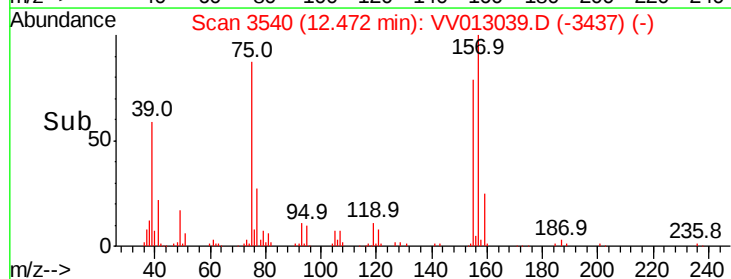
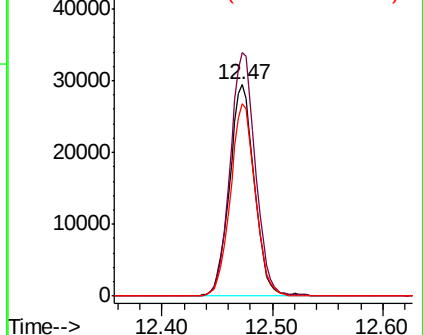
155 91.2 70.8 106.2

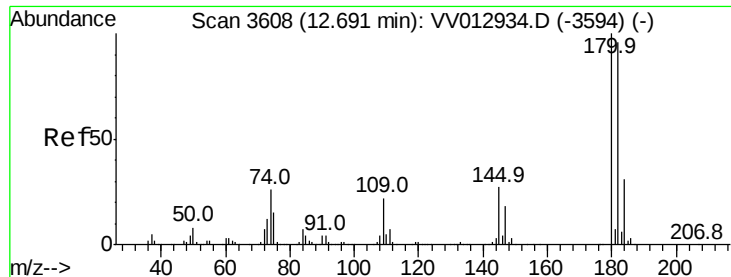


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

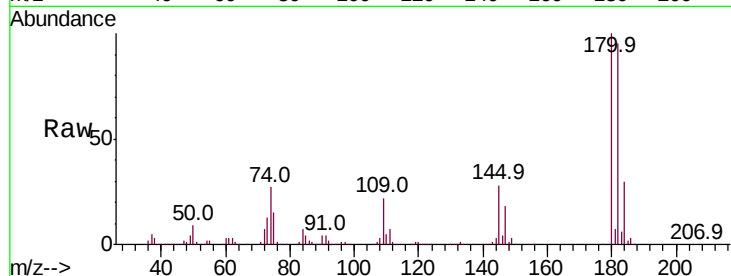




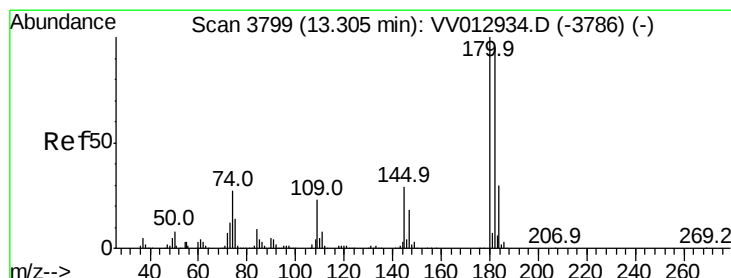
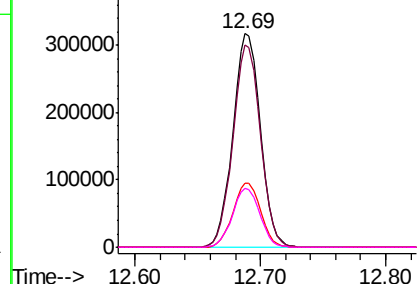
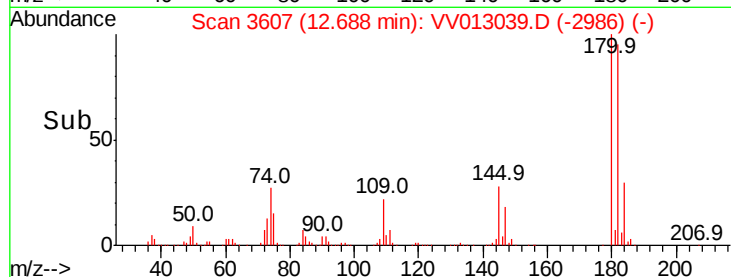
#67
 1,3,5-Trichlorobenzene
 Concen: 25.537 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	480741
Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.4	114.6
184	30.4	24.6	37.0
145	27.8	22.2	33.4

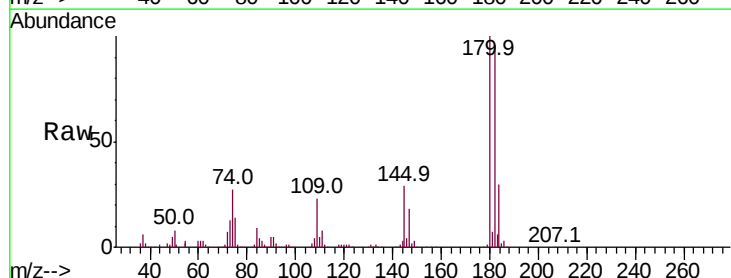


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

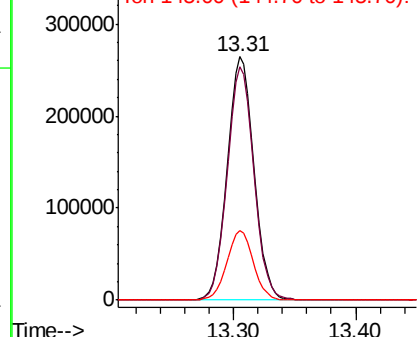
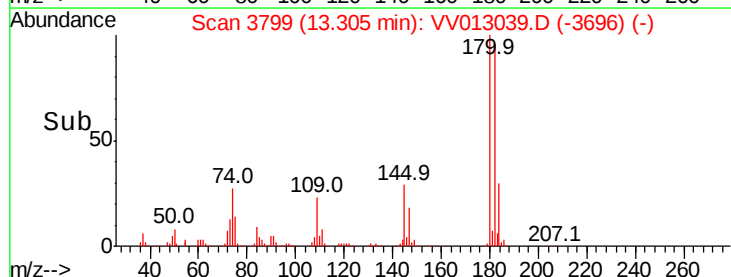


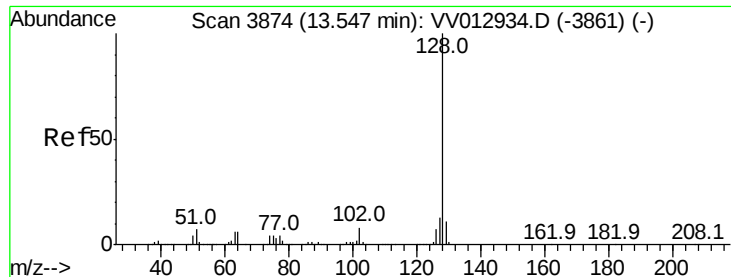
#68
 1,2,4-trichlorobenzene
 Concen: 24.776 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013039.D
 Acq: 04 Oct 2019 10:08

Tgt Ion:	180	Resp:	407871
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	28.2	22.6	34.0



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: 24.327 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

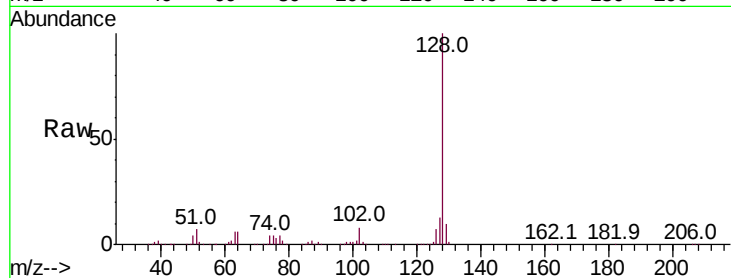
Tot Ion:128 Resp: 805484

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

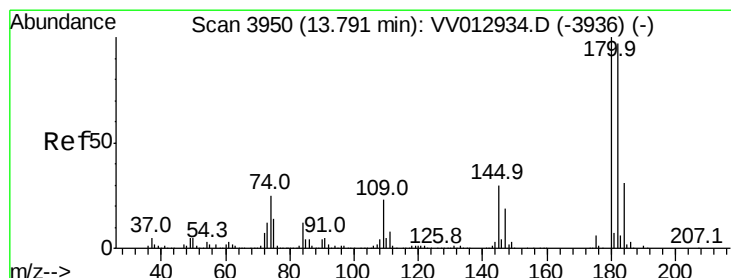
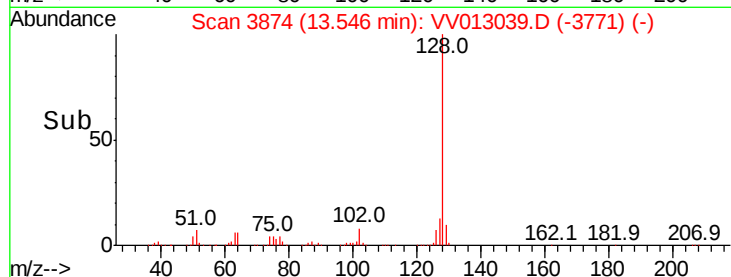
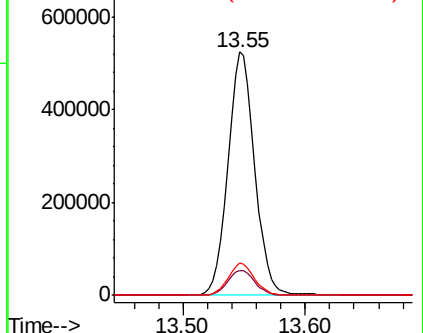
127 13.0 10.2 15.2



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: 24.577 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013039.D

Acq: 04 Oct 2019 10:08

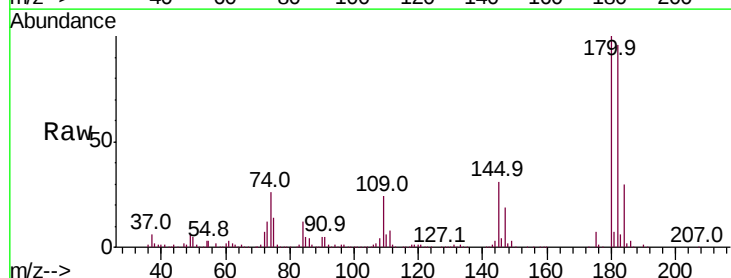
Tgt Ion:180 Resp: 388990

Ion Ratio Lower Upper

180 100

182 96.9 77.4 116.2

145 30.7 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

