

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\
 Data File : VV012733.D
 Acq On : 13 Sep 2019 17:51
 Operator : SY/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 13 18:46:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM091319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 13 18:43:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	873806	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	830913	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	405991	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	216619	43.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.48%
7) Chloroethane-d5	1.57	69	198121	44.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.40%
11) 1,1-Dichloroethene-d2	2.13	63	436632	45.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.66%
21) 2-Butanone-d5	3.92	46	495226	96.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.43%
24) Chloroform-d	4.40	84	565798	46.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.22%
26) 1,2-Dichloroethane-d4	5.08	65	340974	45.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.62%
32) Benzene-d6	5.09	84	1036078	46.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.46%
36) 1,2-Dichloropropane-d6	6.11	67	363750	46.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.98%
41) Toluene-d8	7.36	98	973188	47.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.96%
43) trans-1,3-Dichloropropene-	7.66	79	157044	48.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.36%
47) 2-Hexanone-d5	8.13	63	308903	102.90	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.90%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	486246	48.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.16%
64) 1,2-Dichlorobenzene-d4	11.67	152	435076	46.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	269806	46.120	ug/L 99
3) Chloromethane	1.25	50	284313	46.575	ug/L 98
5) Vinyl chloride	1.32	62	290084	47.528	ug/L 99
6) Bromomethane	1.52	94	174439	50.814	ug/L 98
8) Chloroethane	1.59	64	184742	48.455	ug/L 100
9) Trichlorofluoromethane	1.77	101	405798	47.381	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	248924	47.081	ug/L 99
12) 1,1-Dichloroethene	2.14	96	221448	48.078	ug/L 92
13) Acetone	2.18	43	420756	99.255	ug/L 100
14) Carbon disulfide	2.32	76	468524	46.612	ug/L 100
15) Methyl Acetate	2.45	43	328256	48.782	ug/L 99
16) Methylene chloride	2.53	84	285765	47.284	ug/L 98
17) trans-1,2-Dichloroethene	2.79	96	238463	47.363	ug/L 99
18) Methyl tert-butyl Ether	2.80	73	870672	50.135	ug/L 99
19) 1,1-Dichloroethane	3.23	63	525125	48.252	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	304847	48.936	ug/L 97
22) 2-Butanone	4.00	43	547353	103.923	ug/L 97

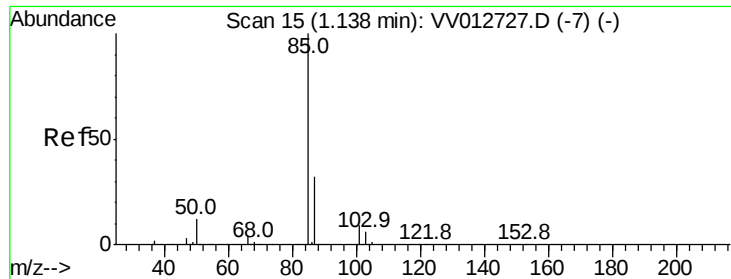
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\
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 Quant Title : VOC Analysis
 QLast Update : Fri Sep 13 18:43:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	151179	47.768	ug/L	96
25) Chloroform	4.42	83	546410	47.792	ug/L	99
27) 1,2-Dichloroethane	5.17	62	415241	48.526	ug/L	97
29) Cyclohexane	4.72	56	400344	50.753	ug/L	100
30) 1,1,1-Trichloroethane	4.65	97	428963	49.372	ug/L	99
31) Carbon tetrachloride	4.87	117	366808	49.032	ug/L	100
33) Benzene	5.14	78	1133768	50.164	ug/L	100
34) Trichloroethene	5.96	95	315370	48.002	ug/L	98
35) Methylcyclohexane	6.17	83	414767	50.045	ug/L	99
37) 1,2-Dichloropropane	6.22	63	316432	48.684	ug/L	99
38) Bromodichloromethane	6.55	83	410714	49.090	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	467815	51.408	ug/L	100
40) 4-Methyl-2-pentanone	7.27	43	936124	104.068	ug/L	100
42) Toluene	7.43	91	1207064	51.428	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	406914	50.719	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	309321	48.777	ug/L	99
46) Tetrachloroethene	8.02	164	223380	49.017	ug/L	99
48) 2-Hexanone	8.18	43	774076	106.062	ug/L	100
49) Dibromochloromethane	8.29	129	334698	50.372	ug/L	99
50) 1,2-Dibromoethane	8.39	107	300720	49.224	ug/L	99
51) Chlorobenzene	8.92	112	796464	49.528	ug/L	99
52) Ethylbenzene	9.05	91	1333792	51.691	ug/L	100
53) m,p-Xylene	9.18	106	503673	53.004	ug/L	98
54) o-xylene	9.59	106	500662	51.900	ug/L	97
55) Styrene	9.60	104	879716	53.765	ug/L	99
56) Isopropylbenzene	9.97	105	1357270	53.549	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	437326	50.504	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	408712	49.403	ug/L	99
61) Bromoform	9.77	173	238587	48.667	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	631476	50.357	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	635982	49.442	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	655482	49.713	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	85429	48.534	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	472626	51.016	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	400383	51.150	ug/L	99
69) Naphthalene	13.55	128	1223316	54.061	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	441882	52.004	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 46.120 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

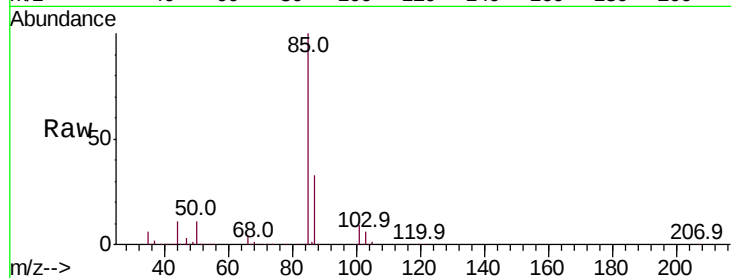
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 269806

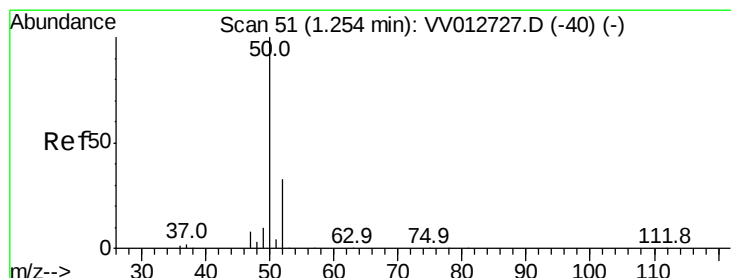
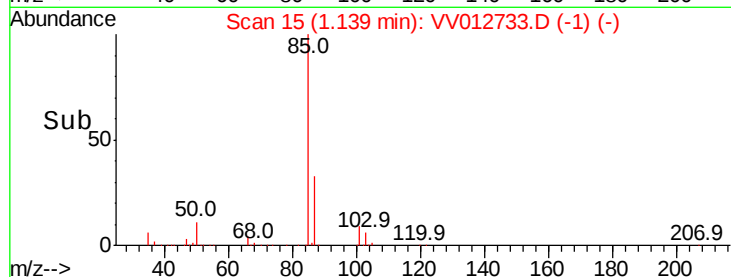
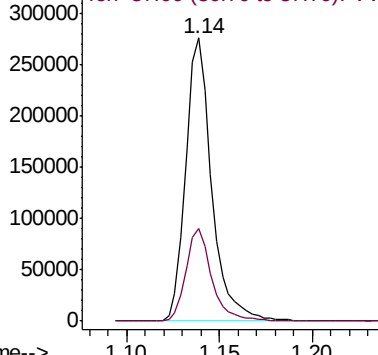
Ion Ratio Lower Upper

85 100

87 32.6 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 46.575 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012733.D

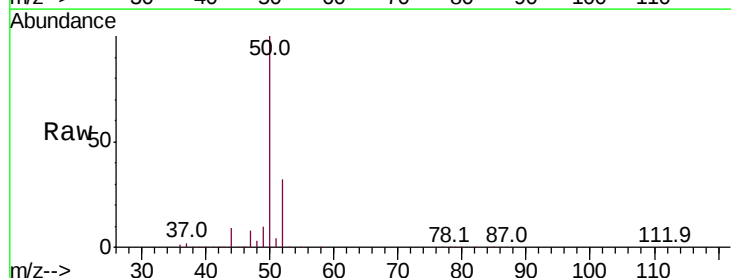
Acq: 13 Sep 2019 17:51

Tgt Ion: 50 Resp: 284313

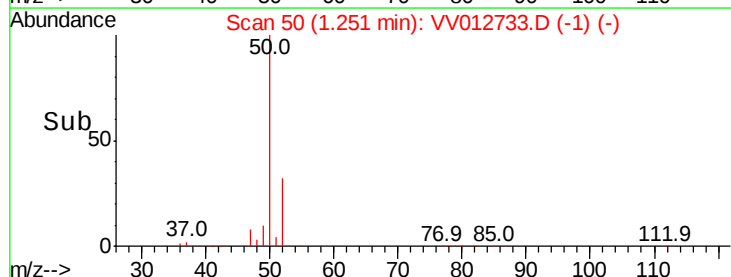
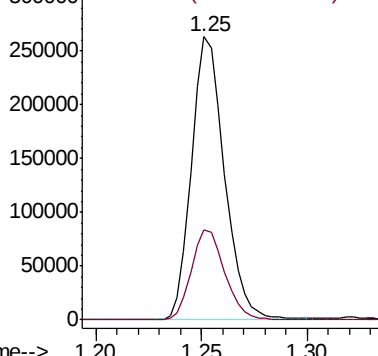
Ion Ratio Lower Upper

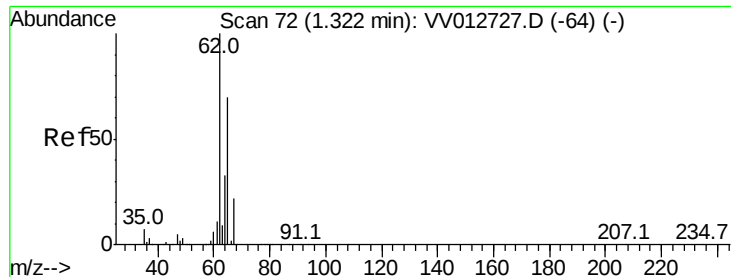
50 100

52 32.1 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV0
Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 47.528 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

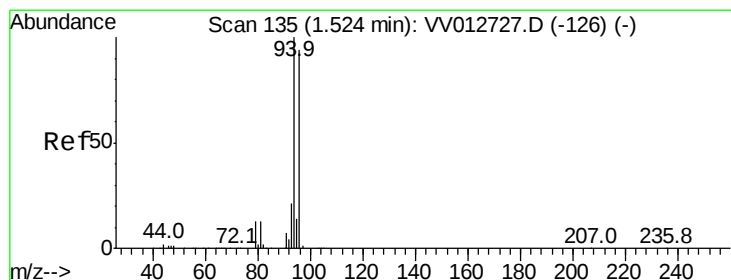
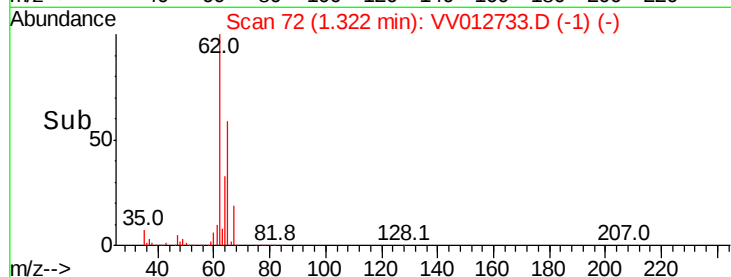
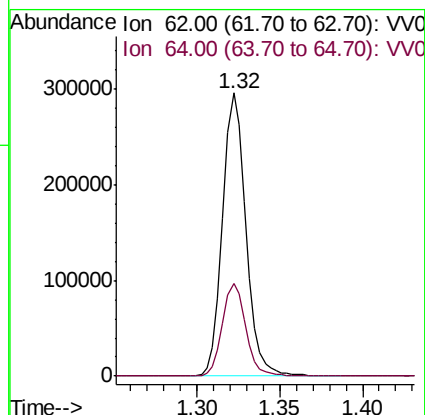
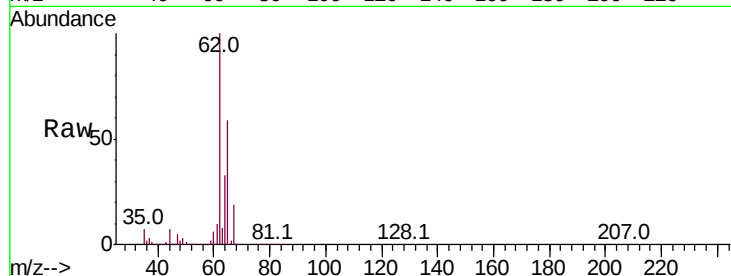
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 290084

Ion Ratio Lower Upper

62 100

64 32.9 23.2 43.2



#6

Bromomethane

Concen: 50.814 ug/L

RT: 1.52 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV012733.D

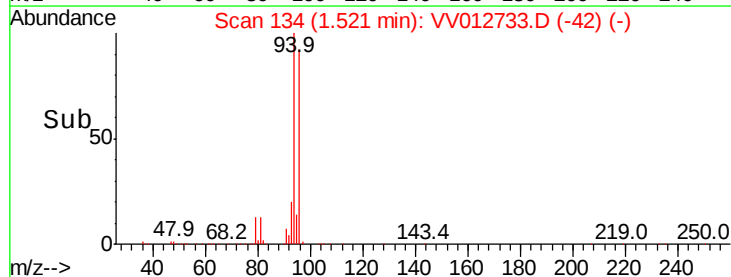
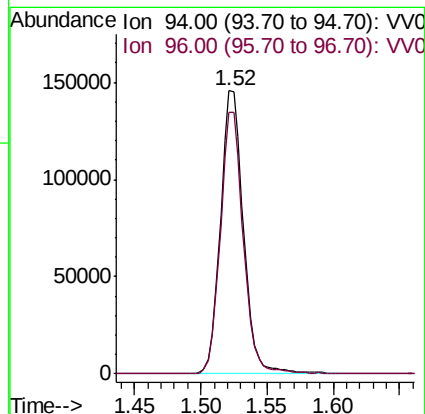
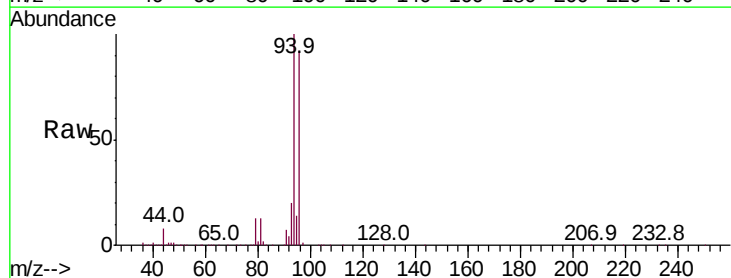
Acq: 13 Sep 2019 17:51

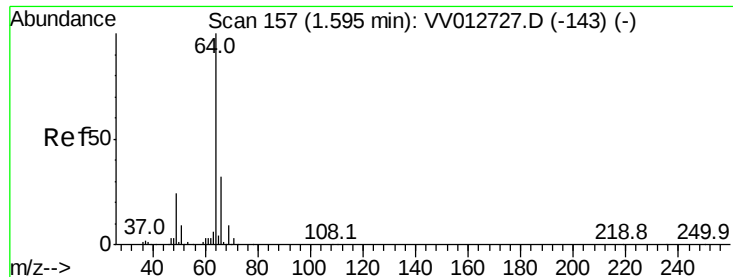
Tgt Ion: 94 Resp: 174439

Ion Ratio Lower Upper

94 100

96 92.4 65.9 122.3





#8

Chloroethane

Concen: 48.455 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :

MSVOA_V

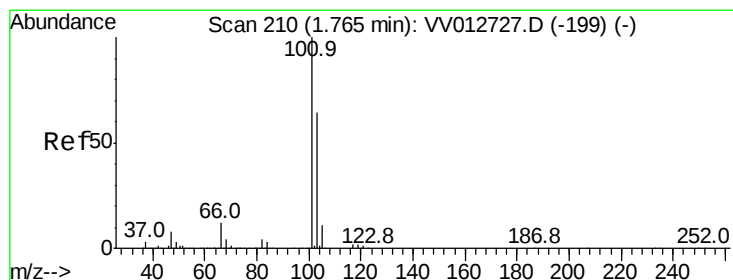
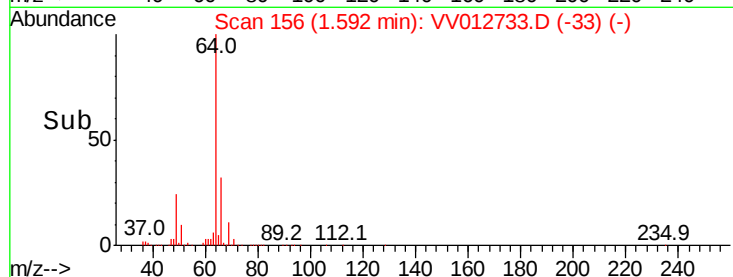
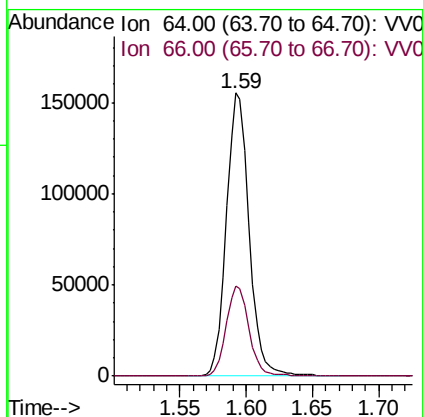
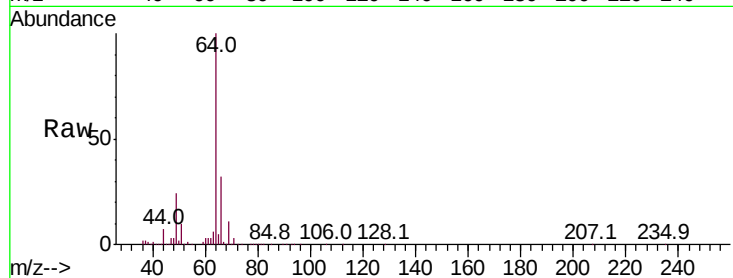
ClientSampleId :

Tot Ion: 64 Resp: 184742

Ion Ratio Lower Upper

64 100

66 32.0 22.4 41.6



#9

Trichlorofluoromethane

Concen: 47.381 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV012733.D

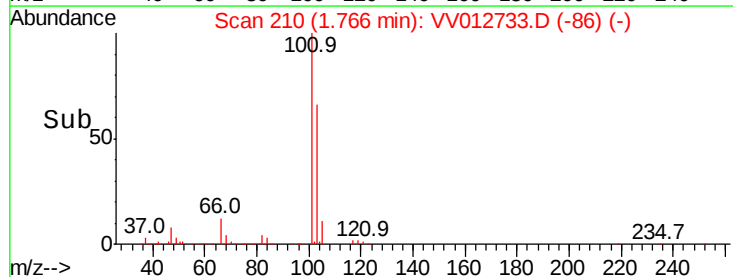
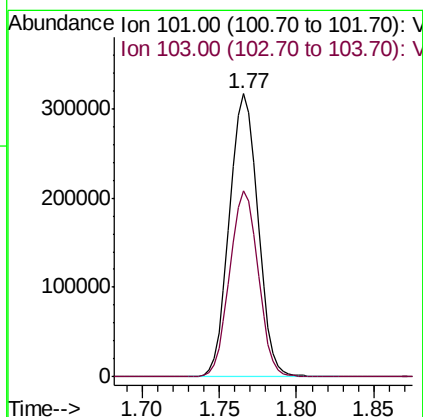
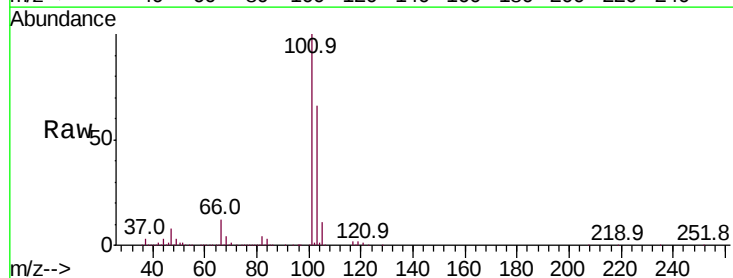
Acq: 13 Sep 2019 17:51

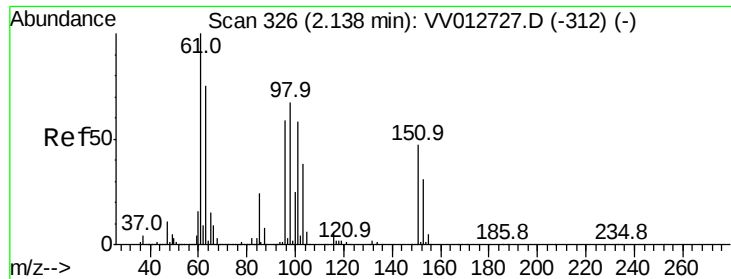
Tgt Ion: 101 Resp: 405798

Ion Ratio Lower Upper

101 100

103 65.5 51.4 77.2





#10

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

Concen: 47.081 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :

MSVOA_V

ClientSampleId :

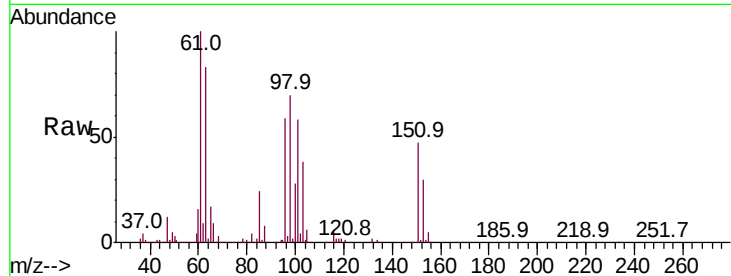
Tot Ion:101 Resp: 248924

Ion Ratio Lower Upper

101 100

85 41.8 32.7 49.1

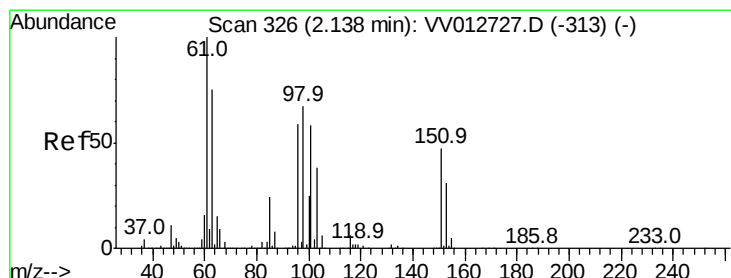
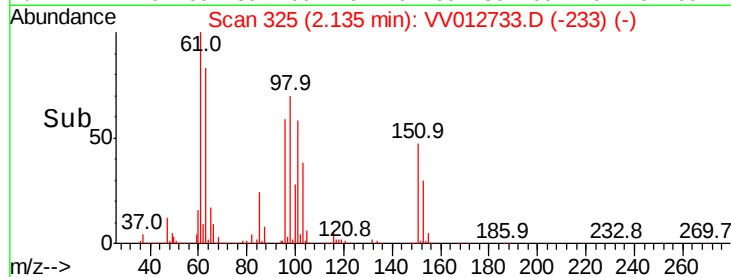
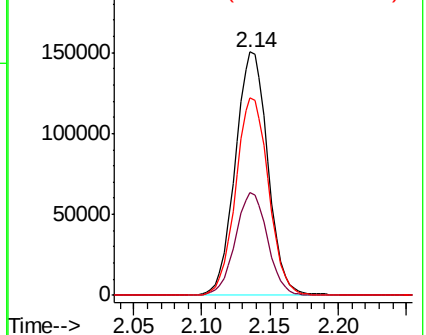
151 81.9 65.0 97.4



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: 48.078 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

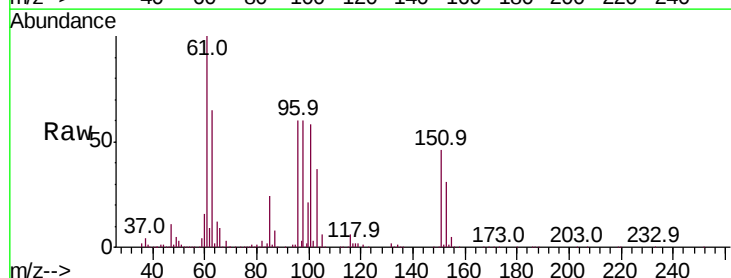
Tgt Ion: 96 Resp: 221448

Ion Ratio Lower Upper

96 100

61 166.4 118.0 219.2

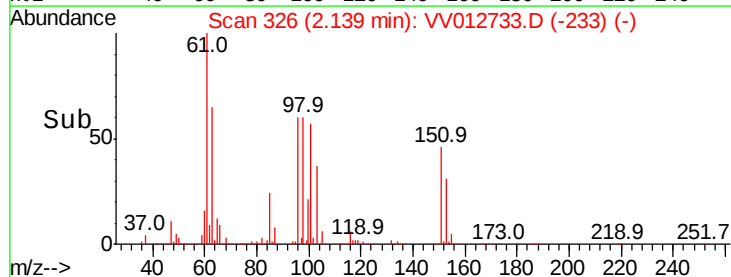
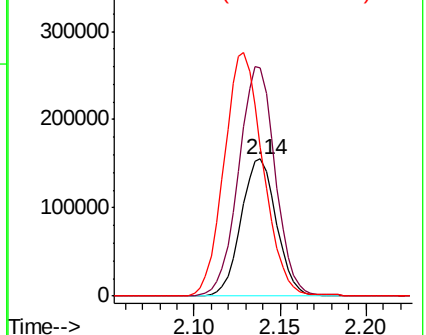
63 108.6 89.2 165.6

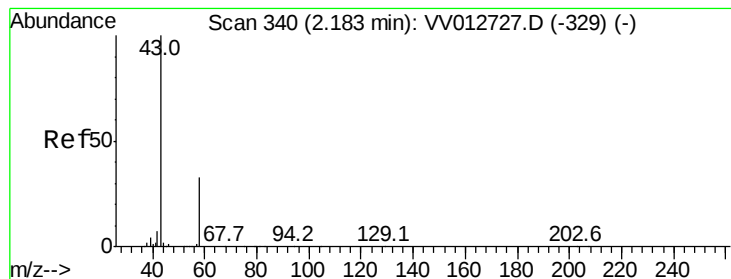


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 99.255 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

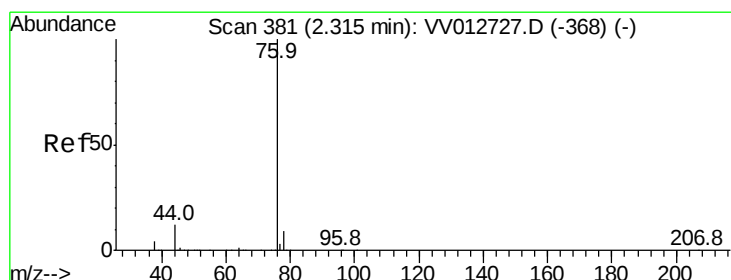
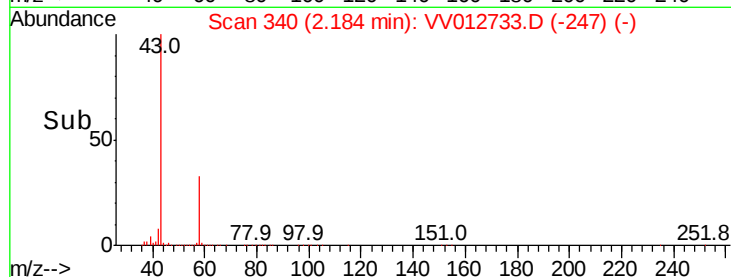
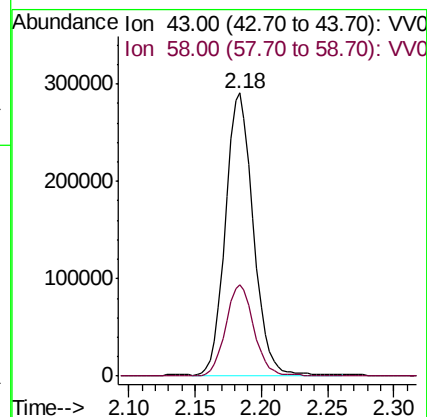
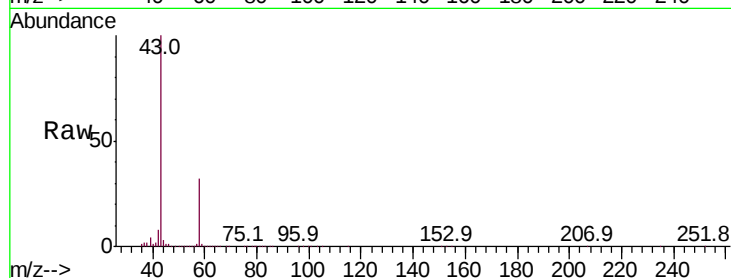
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 420756

Ion Ratio Lower Upper

43 100

58 33.1 0.0 66.4



#14

Carbon disulfide

Concen: 46.612 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012733.D

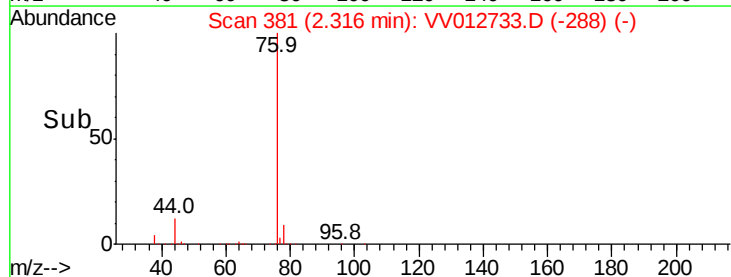
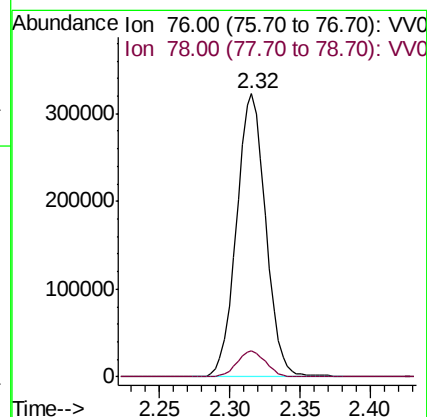
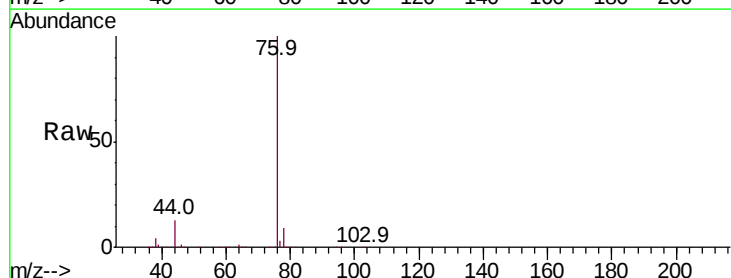
Acq: 13 Sep 2019 17:51

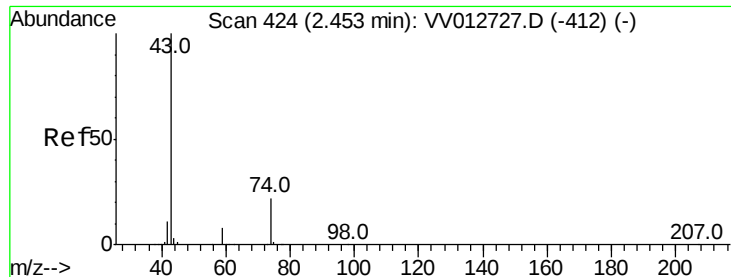
Tgt Ion: 76 Resp: 468524

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8





#15

Methvl Acetate

Concen: 48.782 ug/L

RT: 2.45 min Scan# 424

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :

MSVOA_V

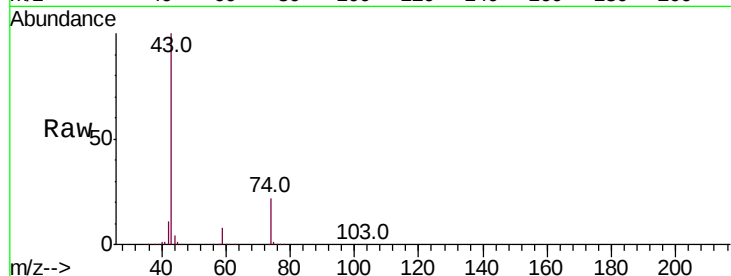
ClientSampleId :

Tot Ion: 43 Resp: 328256

Ion Ratio Lower Upper

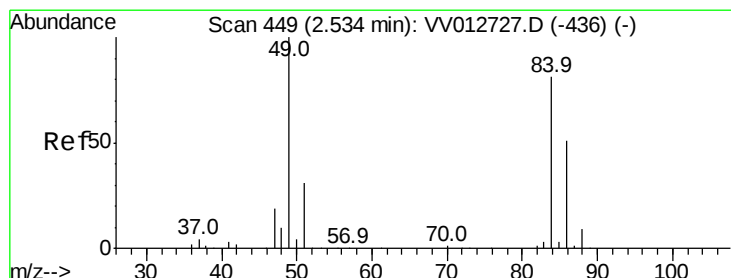
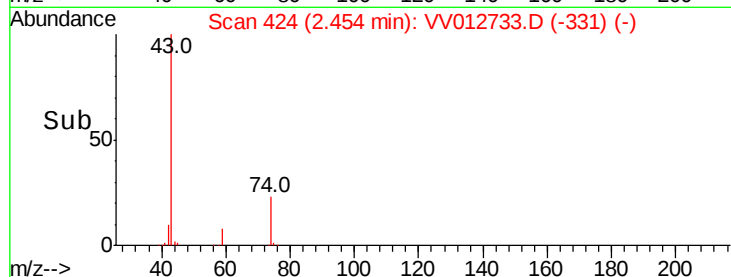
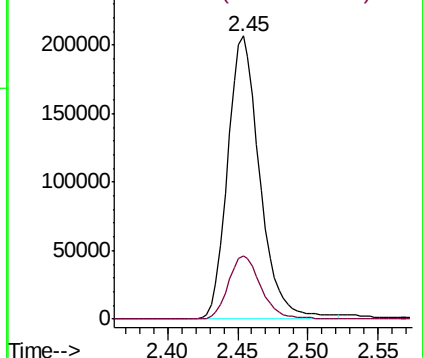
43 100

74 22.9 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 47.284 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

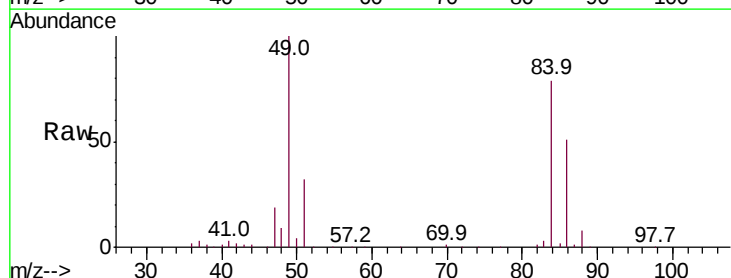
Tgt Ion: 84 Resp: 285765

Ion Ratio Lower Upper

84 100

86 64.2 44.0 81.8

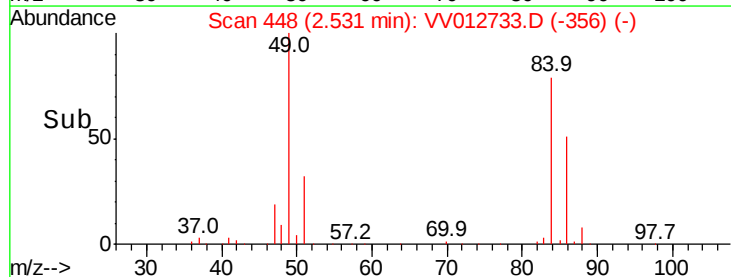
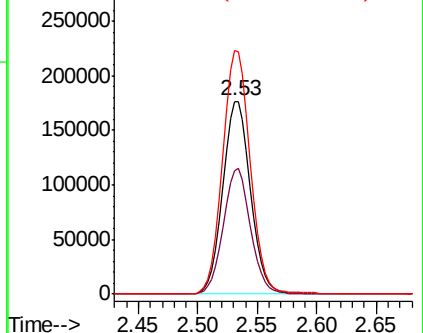
49 126.3 86.2 160.0

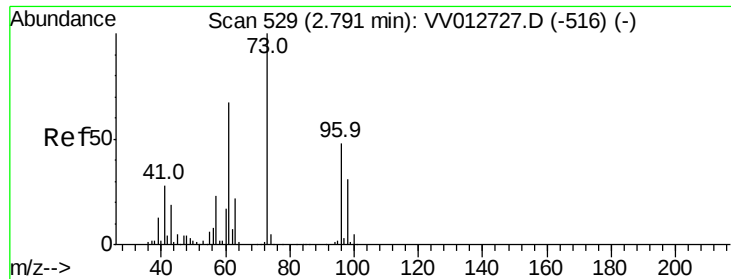


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 47.363 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :
MSVOA_V
ClientSampleId :

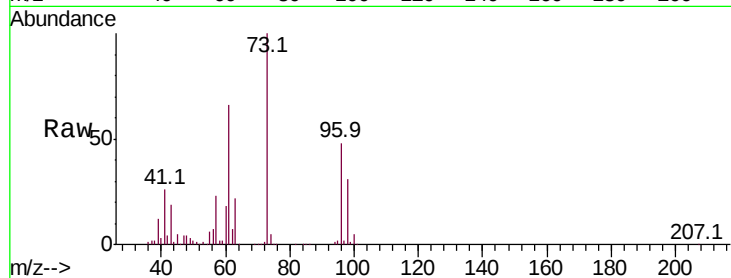
Tot Ion: 96 Resp: 238463

Ion Ratio Lower Upper

96 100

61 139.6 98.3 182.5

98 64.9 45.0 83.6

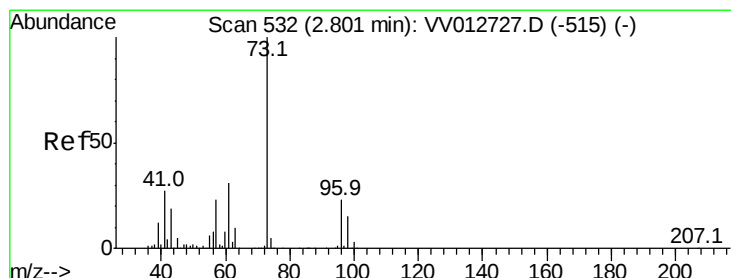
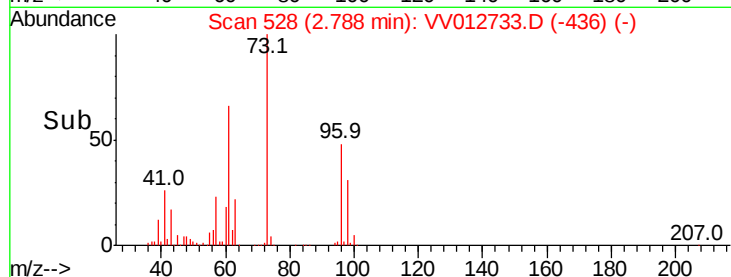
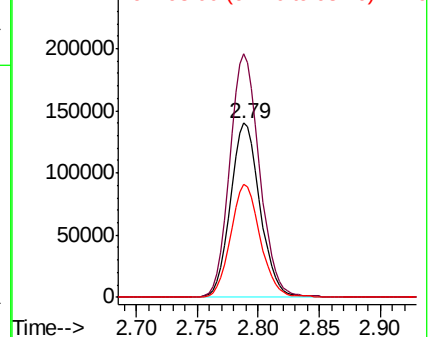


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 50.135 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

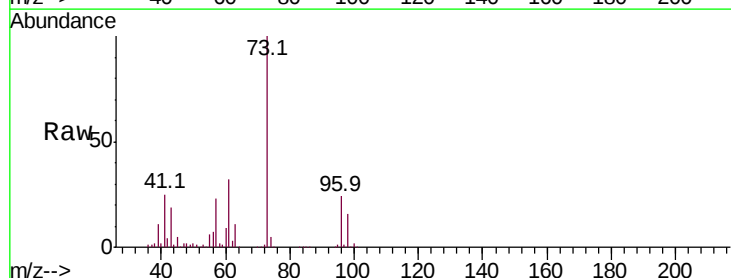
Tgt Ion: 73 Resp: 870672

Ion Ratio Lower Upper

73 100

43 19.0 15.4 23.2

57 22.5 18.4 27.6

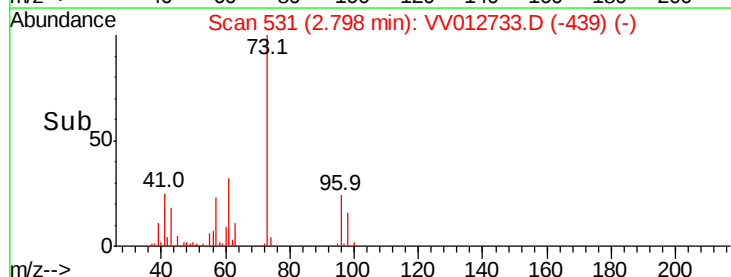
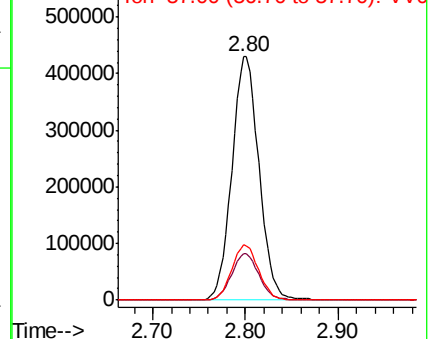


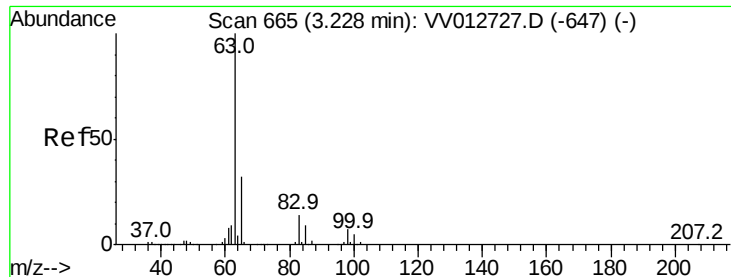
Abundance

Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 48.252 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :
MSVOA_V
ClientSampleId :

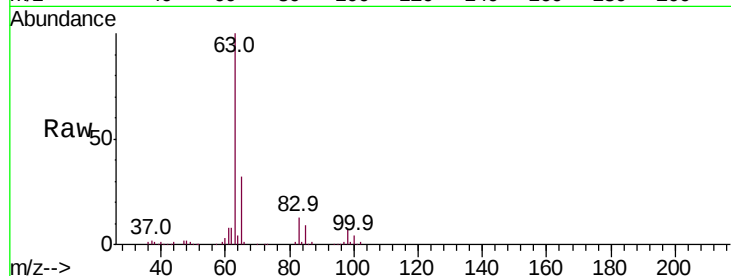
Tot Ion: 63 Resp: 525125

Ion Ratio Lower Upper

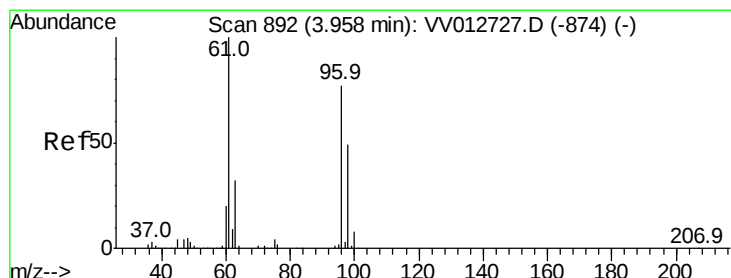
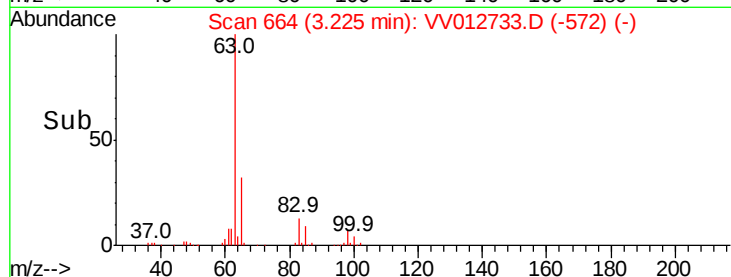
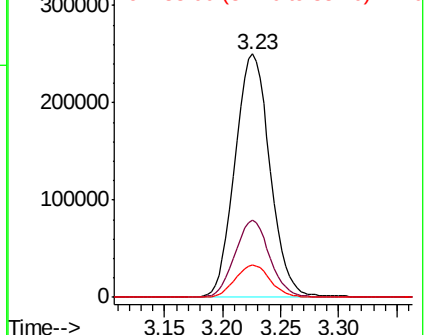
63 100

65 31.6 22.2 41.2

83 13.1 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 48.936 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

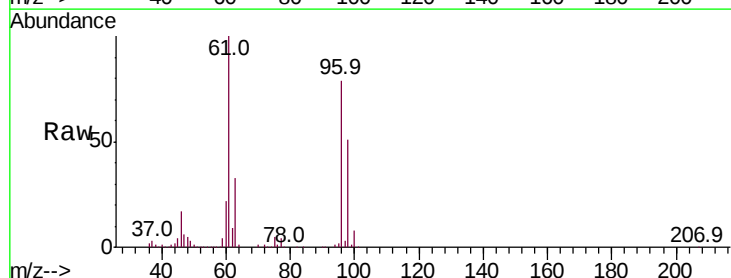
Tgt Ion: 96 Resp: 304847

Ion Ratio Lower Upper

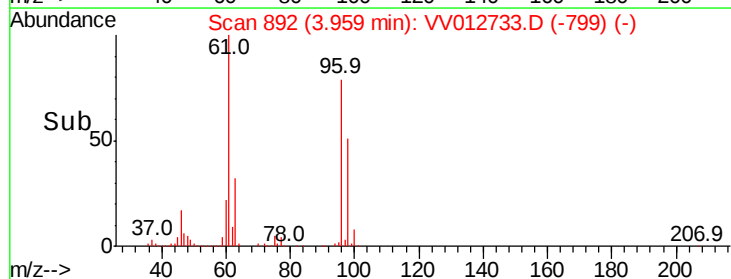
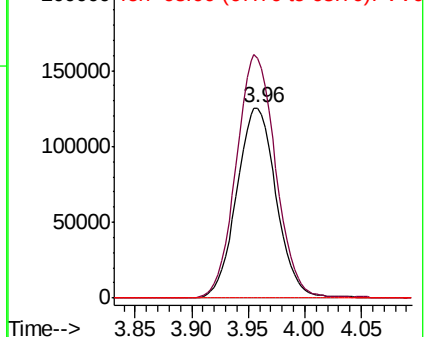
96 100

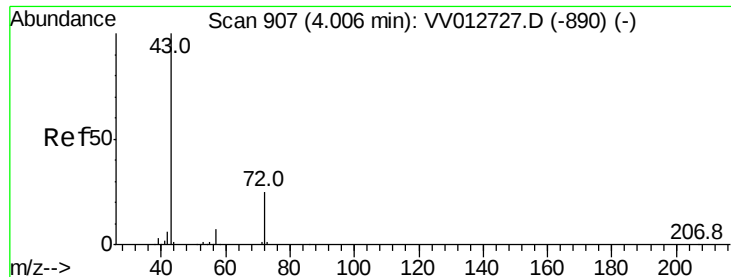
61 126.2 90.6 168.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 103.923 ug/L

RT: 4.00 min Scan# 906

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

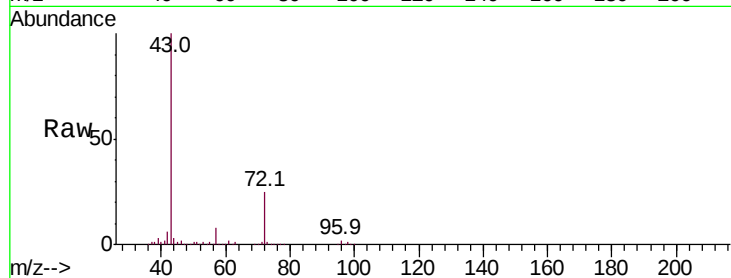
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 547353

Ion Ratio Lower Upper

43 100

72 24.9 13.2 39.6



Abundance Ion 43.00 (42.70 to 43.70): VV012727.D (-890) (-)

Ion 72.00 (71.70 to 72.70): VV012727.D (-890) (-)

4.00

250000

200000

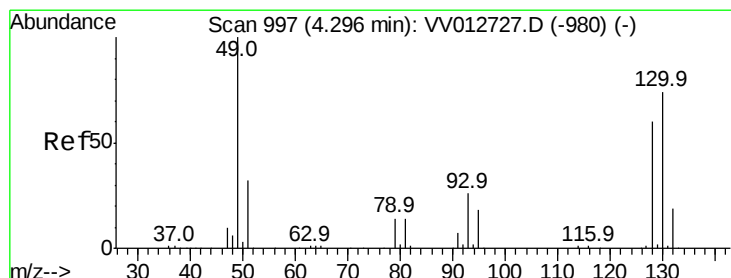
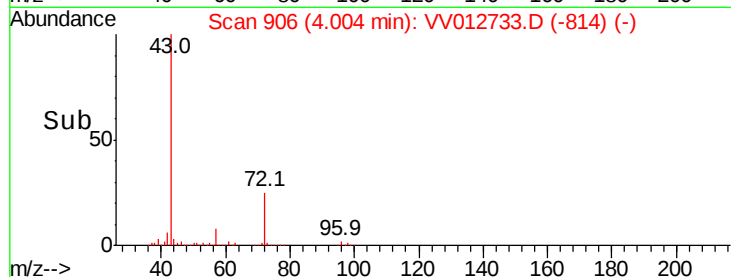
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 47.768 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Tgt Ion: 128 Resp: 151179

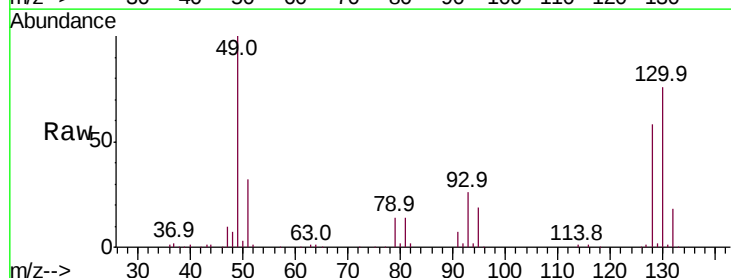
Ion Ratio Lower Upper

128 100

49 171.1 117.2 217.8

130 130.3 86.7 160.9

51 54.5 42.3 63.5



Abundance Ion 128.00 (127.70 to 128.70): VV012727.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV012727.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV012727.D (-980) (-)

Ion 51.00 (50.70 to 51.70): VV012727.D (-980) (-)

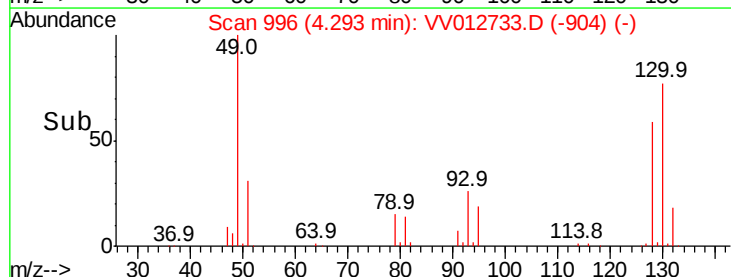
150000

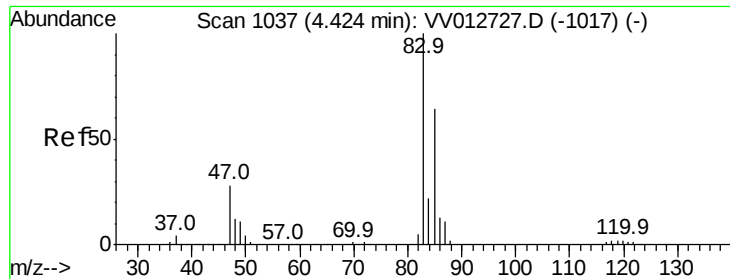
100000

50000

0

Time-->

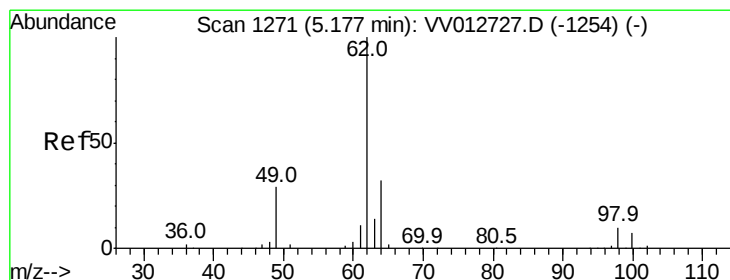
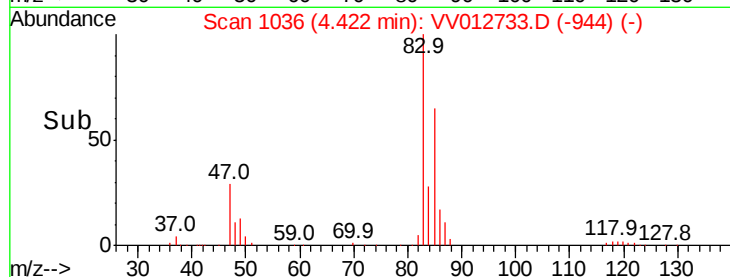
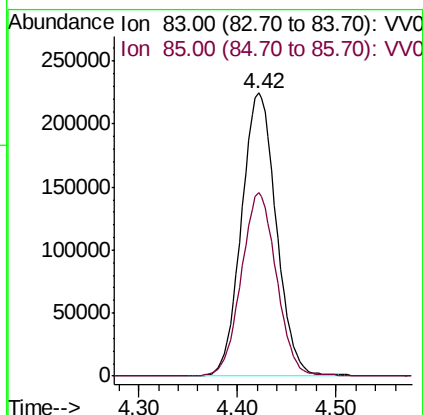
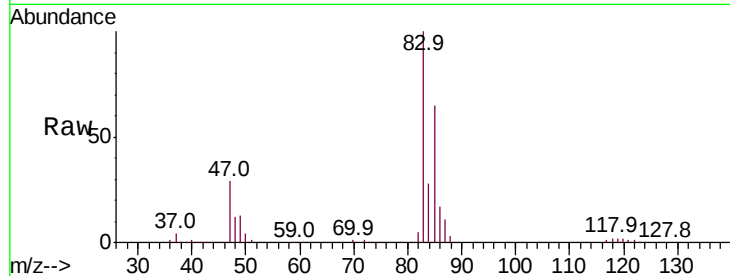




#25
Chloroform
Concen: 47.792 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

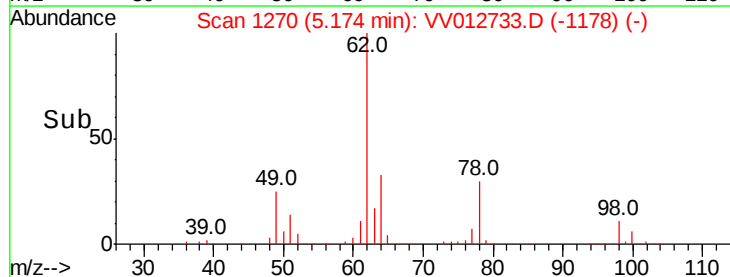
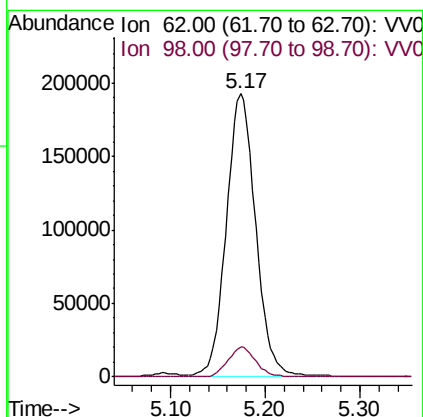
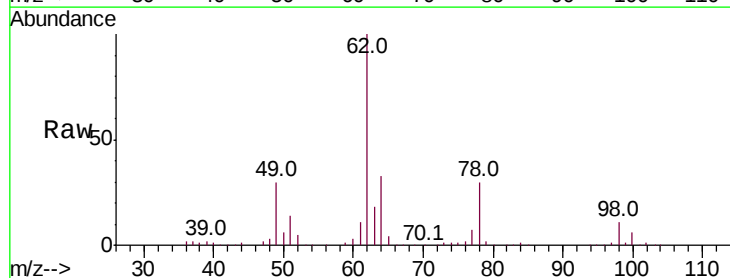
Instrument :
MSVOA_V
ClientSampleId :

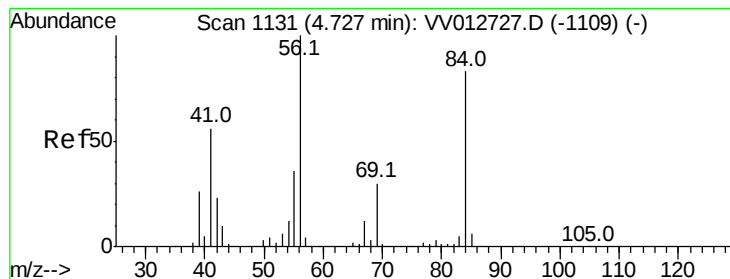
Tot Ion: 83 Resp: 546410
Ion Ratio Lower Upper
83 100
85 64.9 45.1 83.9



#27
1,2-Dichloroethane
Concen: 48.526 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

Tgt Ion: 62 Resp: 415241
Ion Ratio Lower Upper
62 100
98 10.6 7.7 11.5





#29

Cyclohexane

Concen: 50.753 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :
MSVOA_V
ClientSampleId :

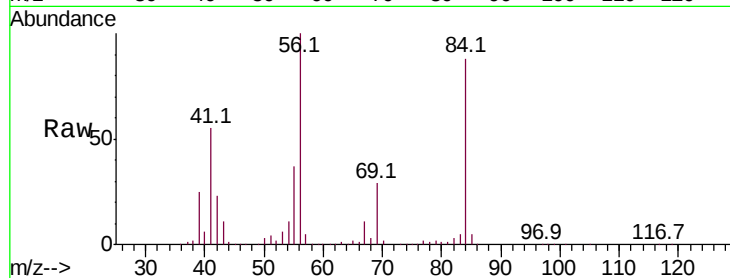
Tot Ion: 56 Resp: 400344

Ion Ratio Lower Upper

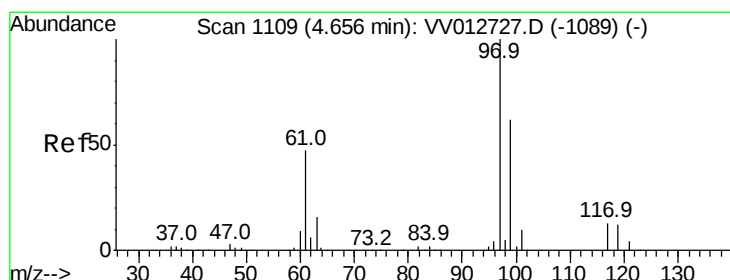
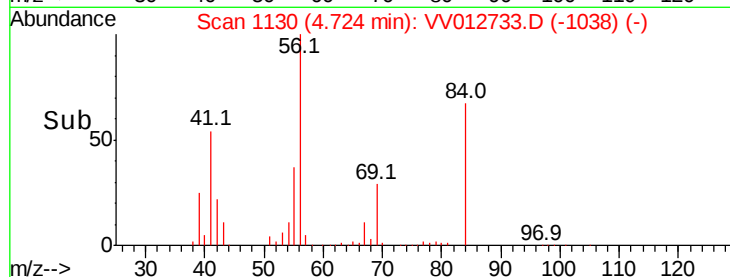
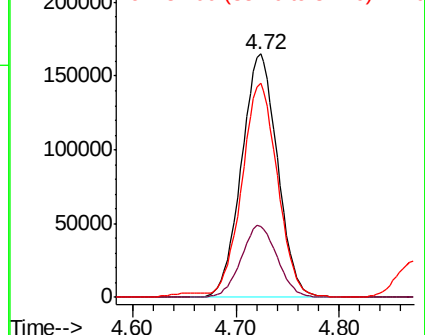
56 100

69 29.7 24.2 36.2

84 86.9 69.8 104.6



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



#30

1,1,1-Trichloroethane

Concen: 49.372 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

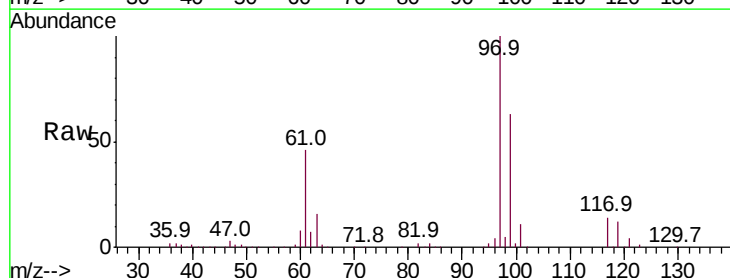
Tgt Ion: 97 Resp: 428963

Ion Ratio Lower Upper

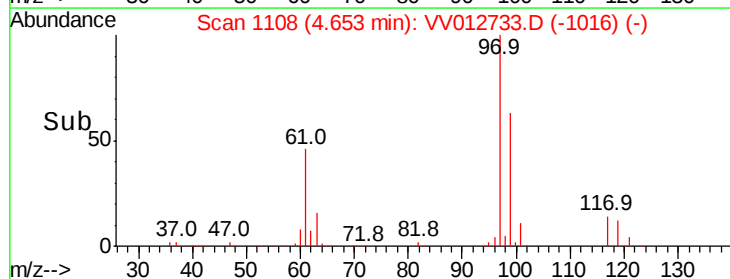
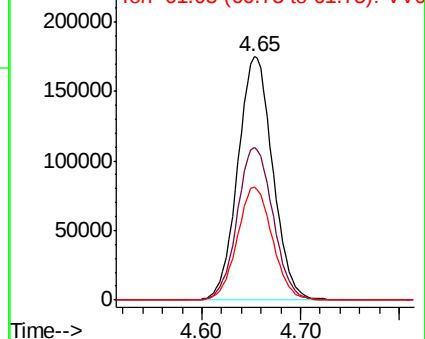
97 100

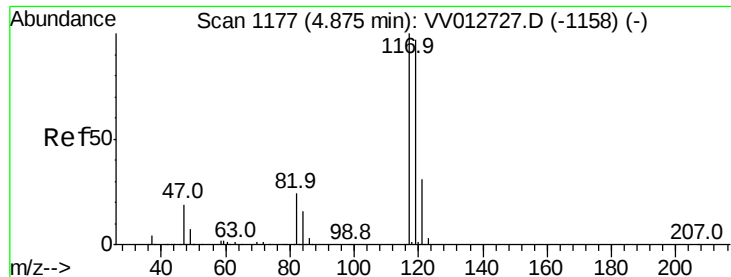
99 64.2 50.6 75.8

61 46.7 37.8 56.8



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

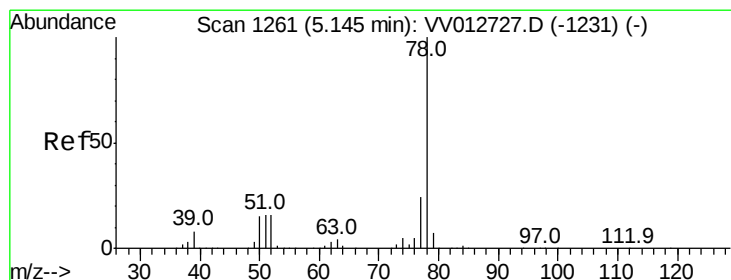
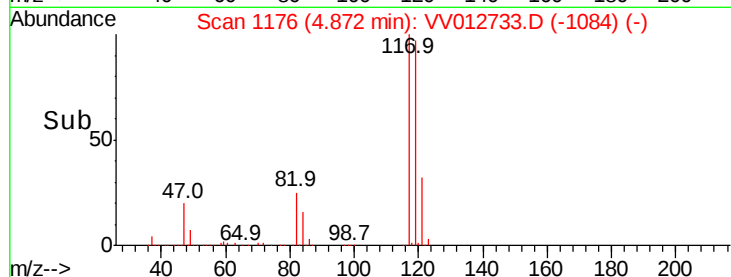
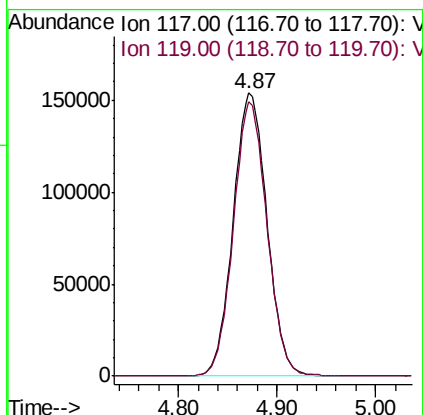
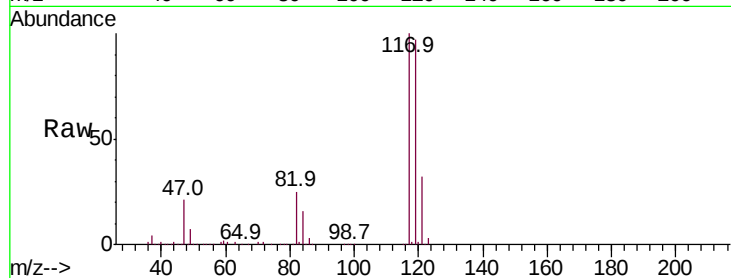




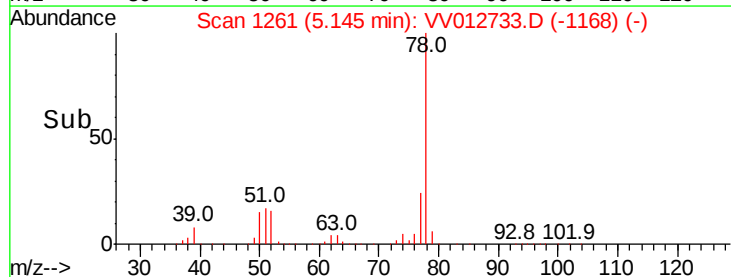
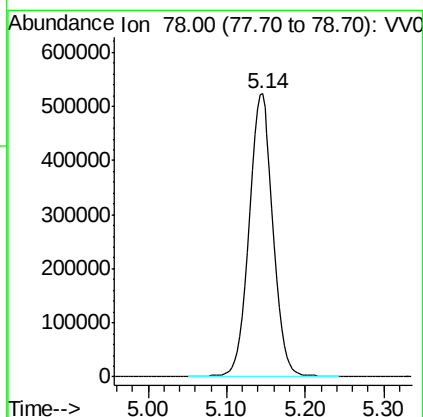
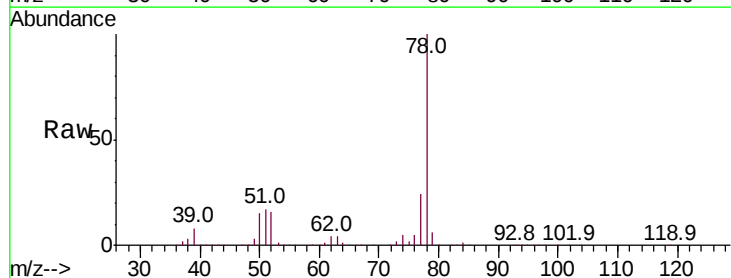
#31
Carbon tetrachloride
Concen: 49.032 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

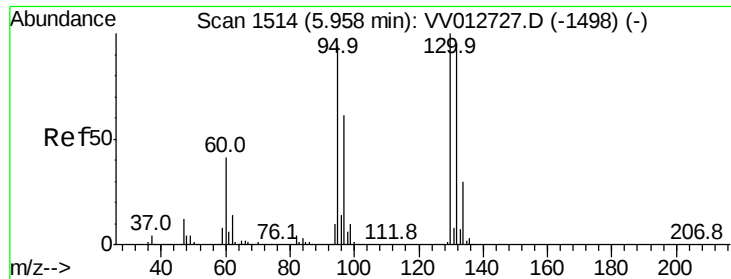
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 366808
Ion Ratio Lower Upper
117 100
119 96.1 77.1 115.7



#33
Benzene
Concen: 50.164 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51
Tgt Ion: 78 Resp: 1133768

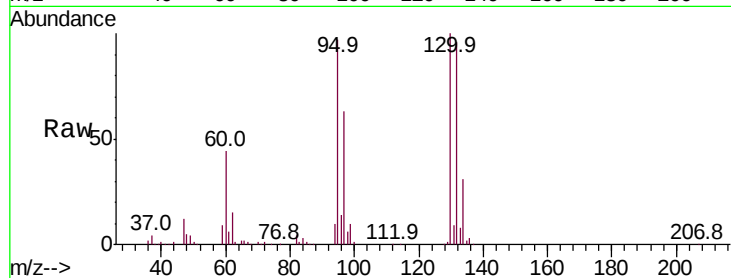




#34
 Trichloroethene
 Concen: 48.002 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. -0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	95	Resp	315370
Ion	Ratio	Lower	Upper
95	100		
97	65.1	45.1	83.9
132	98.8	70.6	131.0
130	102.9	74.6	138.6



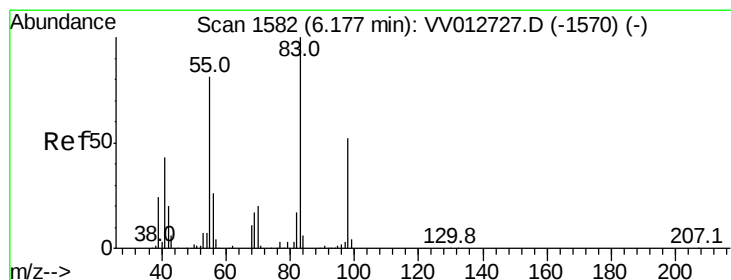
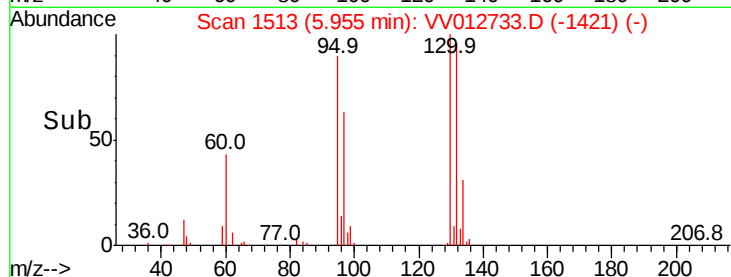
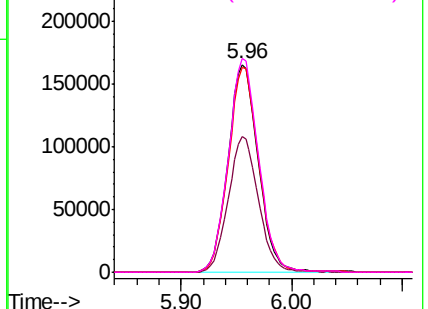
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

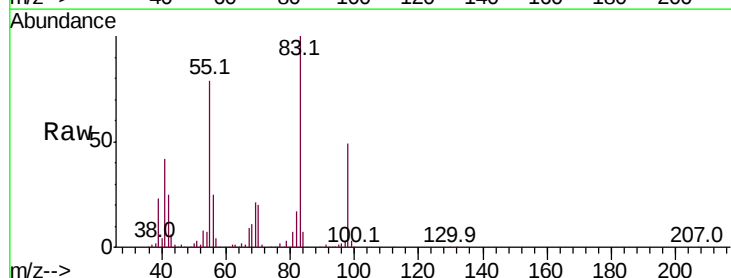
Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35
 Methylcyclohexane
 Concen: 50.045 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Tgt Ion	83	Resp	414767
Ion	Ratio	Lower	Upper
83	100		
55	78.5	62.2	93.2
98	49.6	39.4	59.0

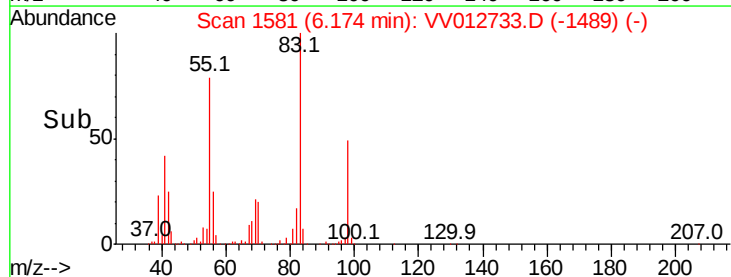
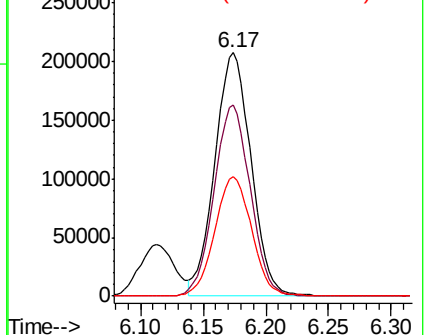


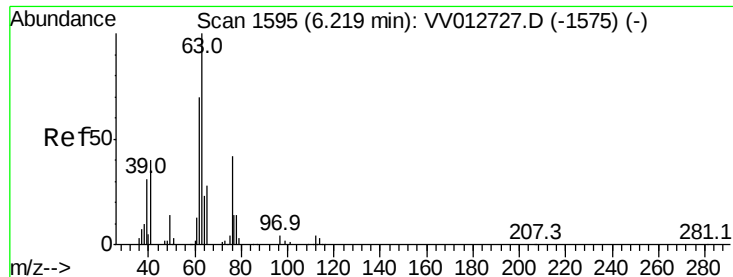
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 48.684 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

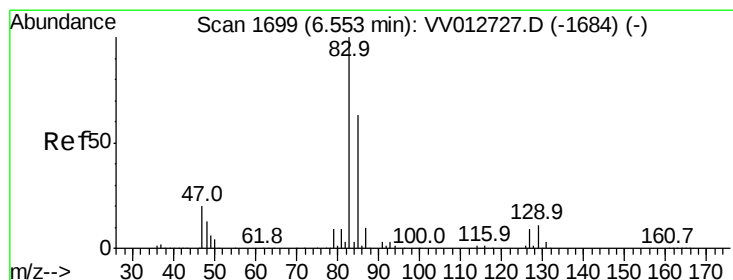
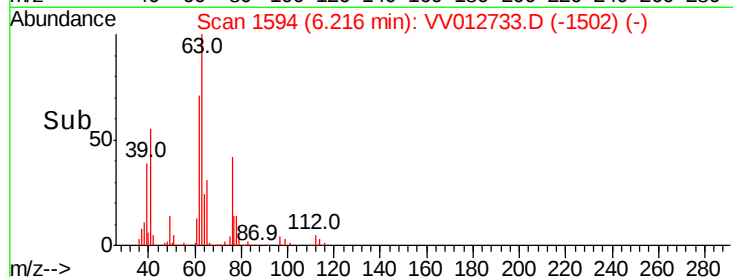
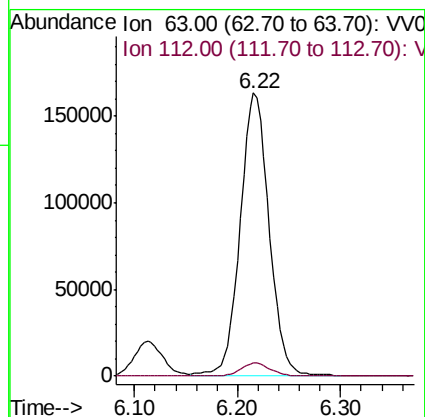
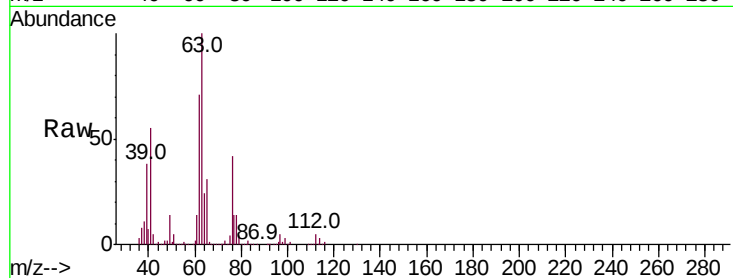
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 316432

Ion Ratio Lower Upper

63 100

112 4.8 3.5 5.3



#38

Bromodichloromethane

Concen: 49.090 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

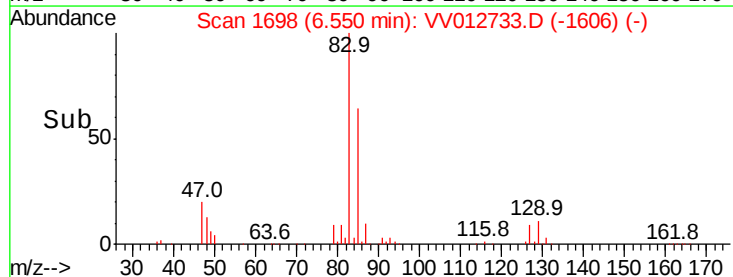
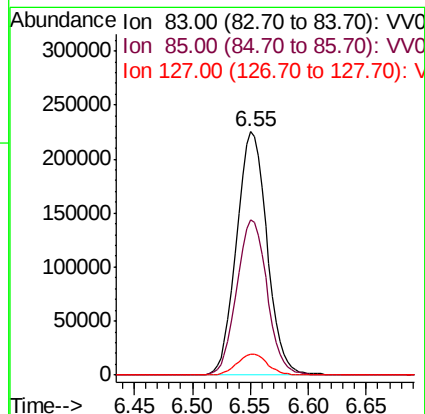
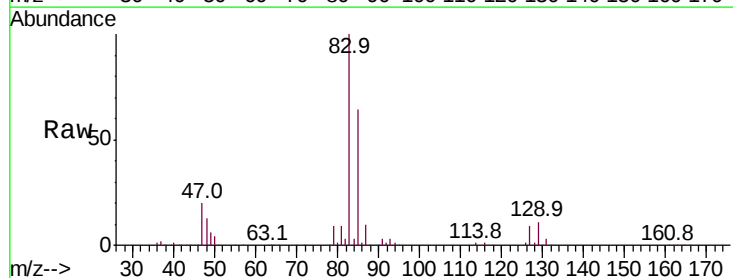
Tgt Ion: 83 Resp: 410714

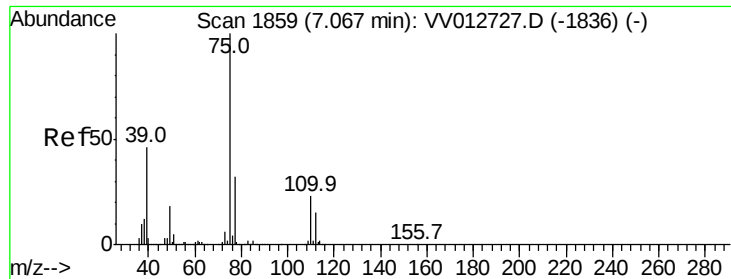
Ion Ratio Lower Upper

83 100

85 63.9 44.4 82.5

127 8.7 7.0 10.4



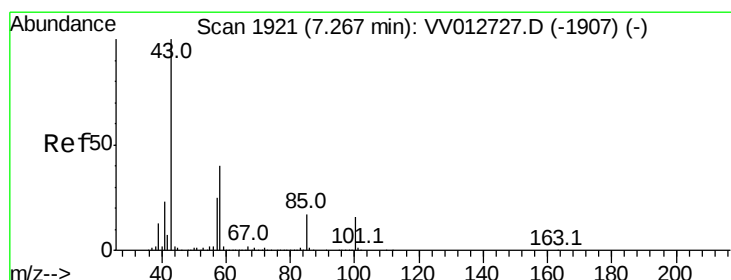
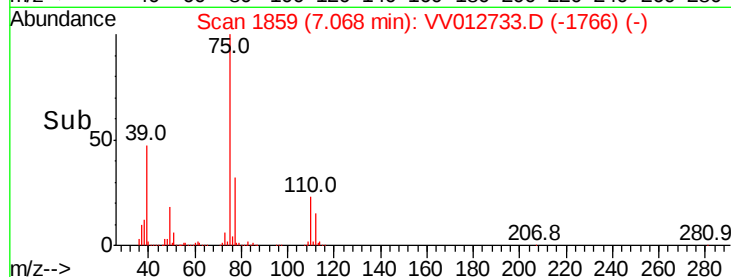
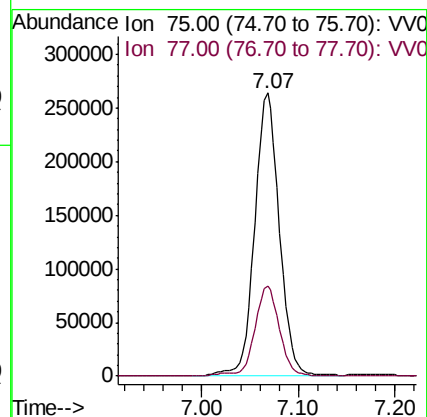
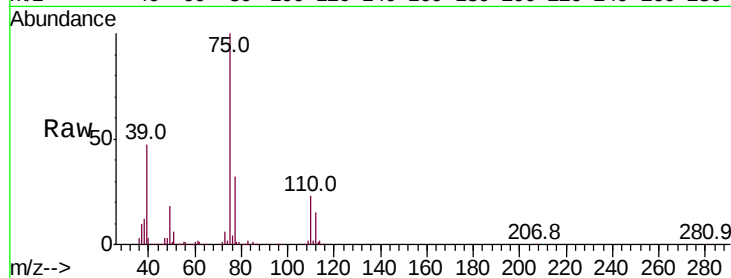


#39

cis-1,3-Dichloropropene
 Concen: 51.408 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Instrument :
 MSVOA_V
 ClientSampleId :

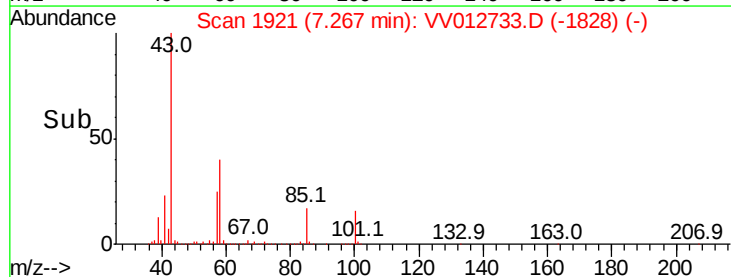
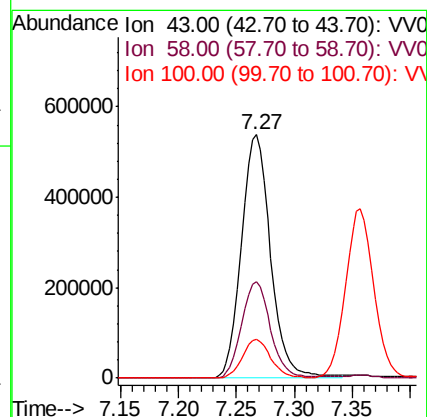
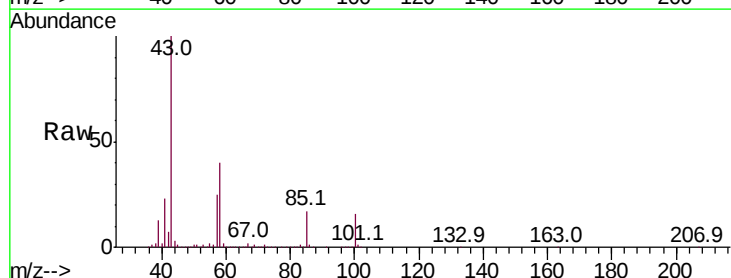
Tot Ion: 75 Resp: 467815
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.1 41.1

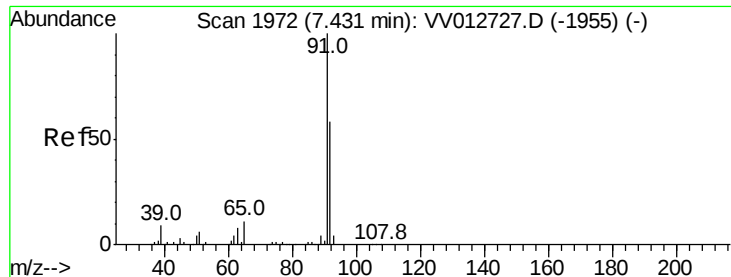


#40

4-Methyl-2-pentanone
 Concen: 104.068 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Tgt Ion: 43 Resp: 936124
 Ion Ratio Lower Upper
 43 100
 58 39.4 31.3 46.9
 100 15.6 12.4 18.6





#42

Toluene

Concen: 51.428 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

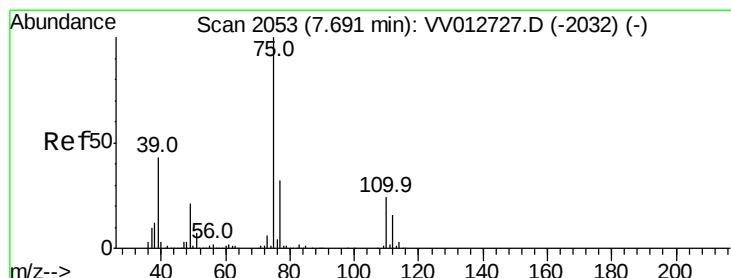
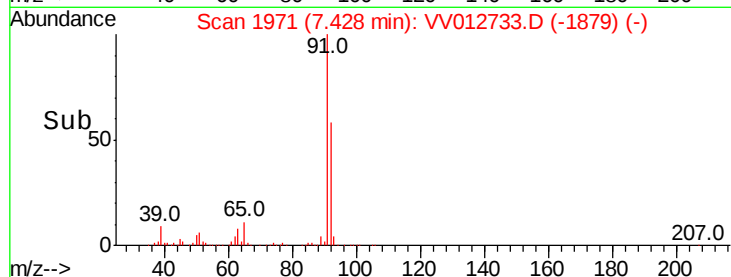
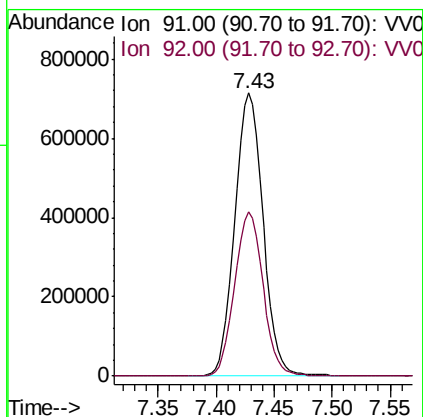
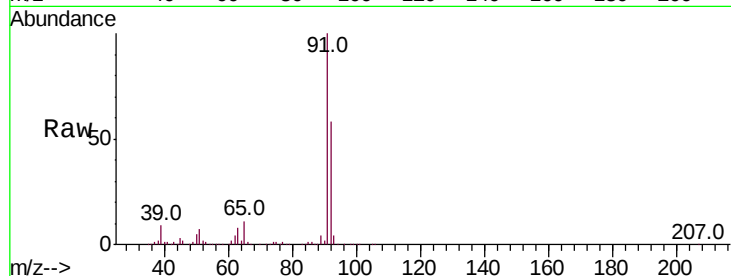
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1207064

Ion Ratio Lower Upper

91 100

92 57.9 40.9 76.0



#44

trans-1,3-Dichloropropene

Concen: 50.719 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV012733.D

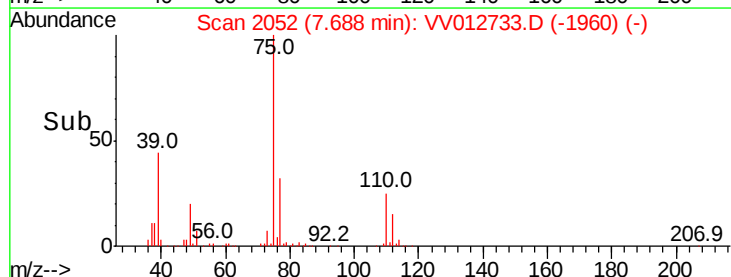
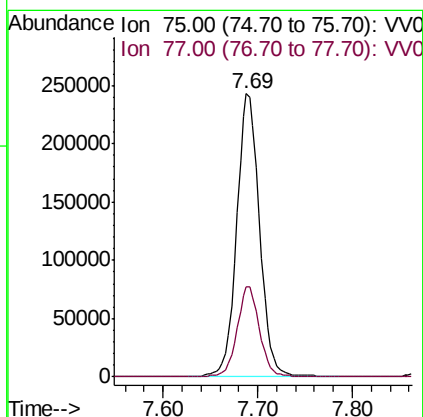
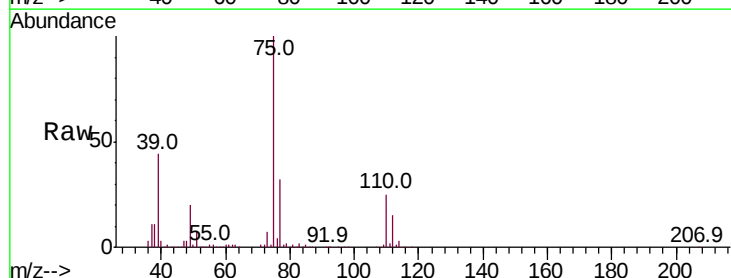
Acq: 13 Sep 2019 17:51

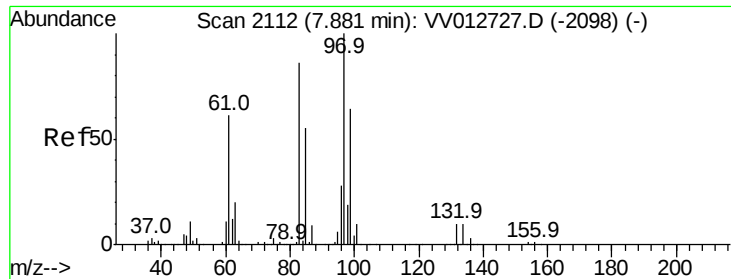
Tgt Ion: 75 Resp: 406914

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1

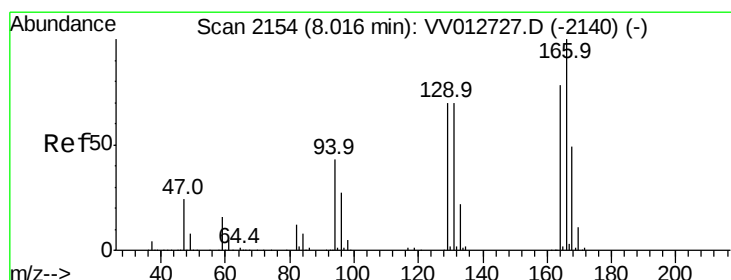
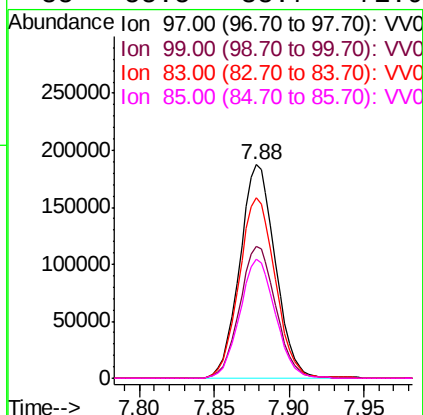
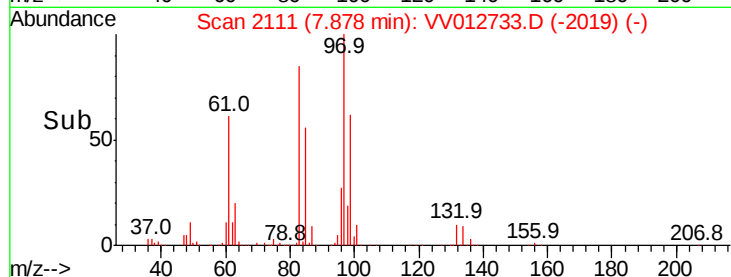
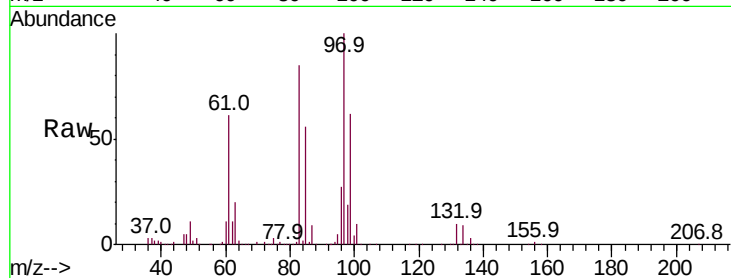




#45
1,1,2-Trichloroethane
Concen: 48.777 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

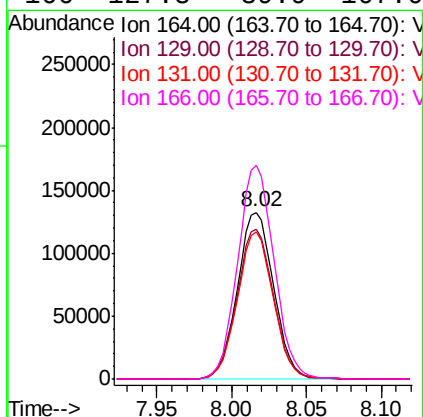
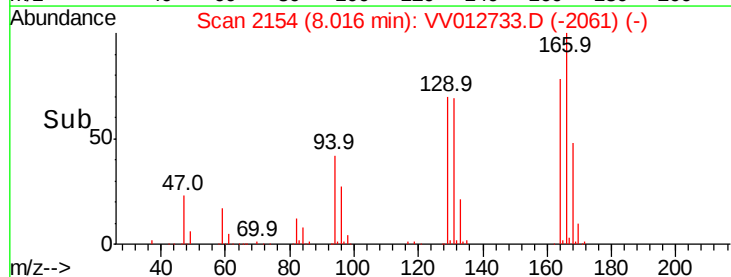
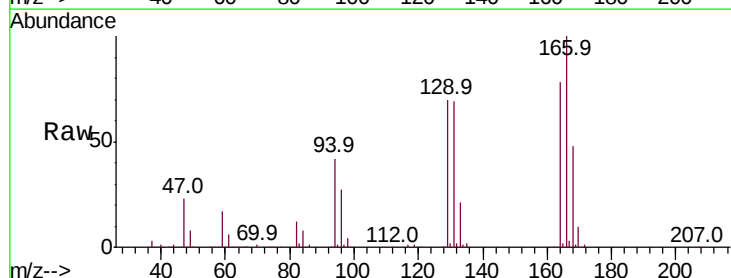
Instrument :
MSVOA_V
ClientSampleId :

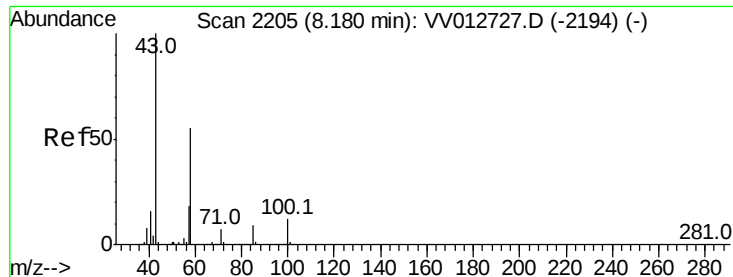
Tot Ion: 97 Resp: 309321
Ion Ratio Lower Upper
97 100
99 61.7 44.6 82.8
83 84.7 59.9 111.3
85 55.5 38.7 71.9



#46
Tetrachloroethene
Concen: 49.017 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

Tgt Ion: 164 Resp: 223380
Ion Ratio Lower Upper
164 100
129 89.6 62.7 116.5
131 88.0 62.7 116.5
166 127.8 89.9 167.0

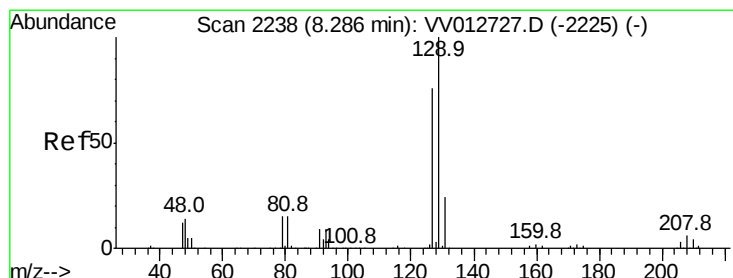
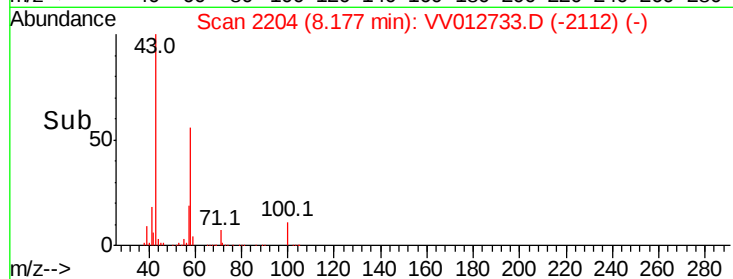
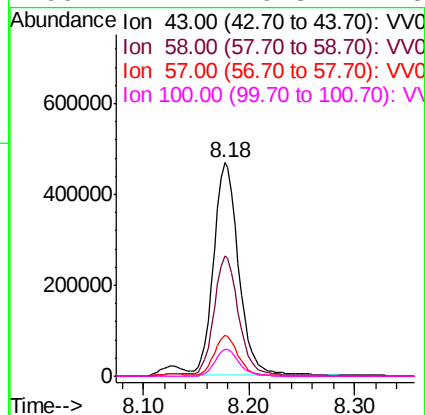
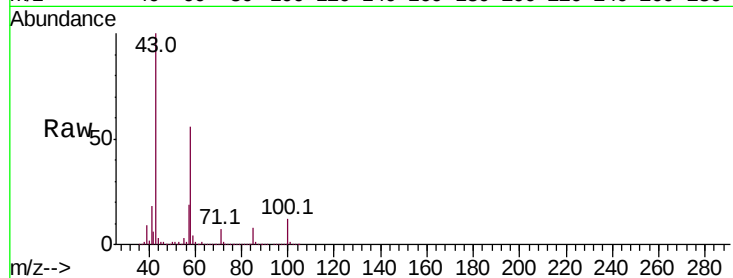




#48
2-Hexanone
Concen: 106.062 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

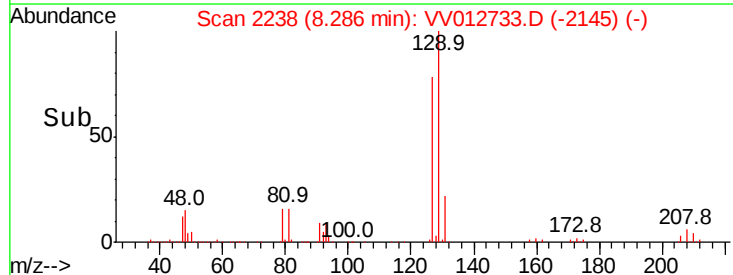
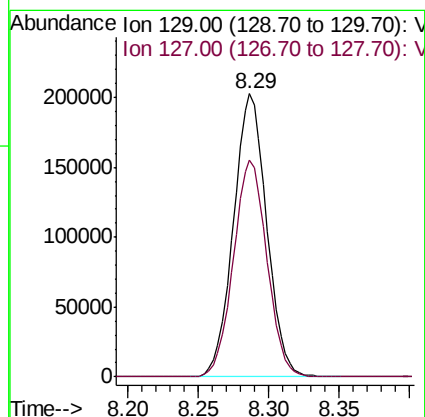
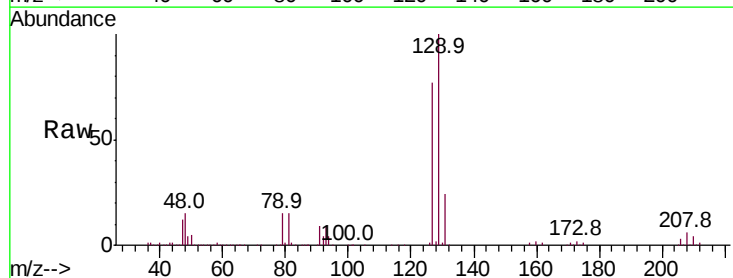
Instrument :
MSVOA_V
ClientSampleId :

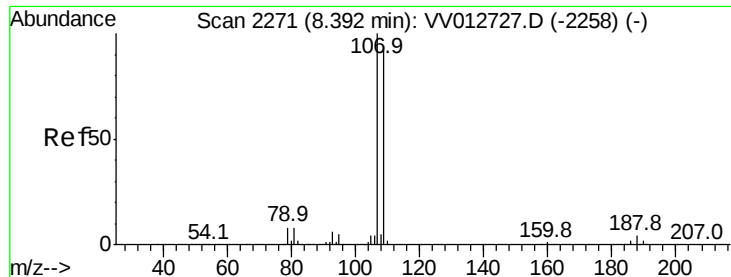
Tot Ion:	43	Resp:	774076
Ion	Ratio	Lower	Upper
43	100		
58	54.6	43.8	65.8
57	18.4	14.3	21.5
100	12.1	9.8	14.8



#49
Dibromochloromethane
Concen: 50.372 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

Tgt Ion:	129	Resp:	334698
Ion	Ratio	Lower	Upper
129	100		
127	76.6	53.0	98.4





#50

1,2-Dibromoethane

Concen: 49.224 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :
MSVOA_V
ClientSampleId :

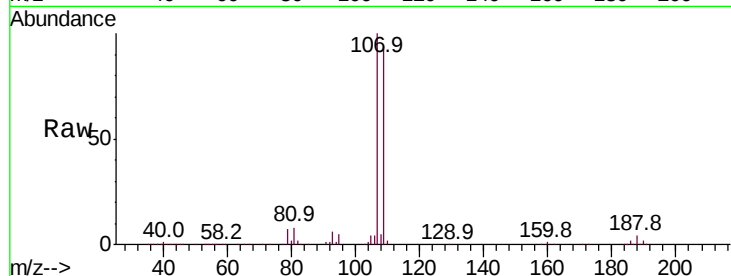
Tot Ion:107 Resp: 300720

Ion Ratio Lower Upper

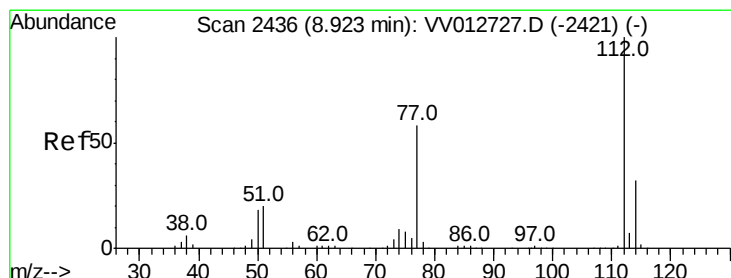
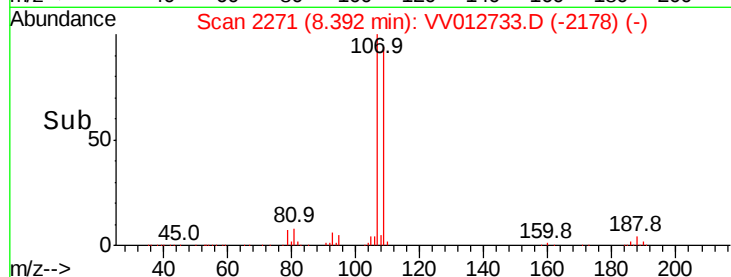
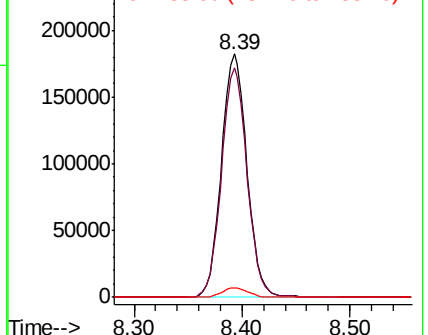
107 100

109 94.4 65.7 121.9

188 4.0 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 49.528 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

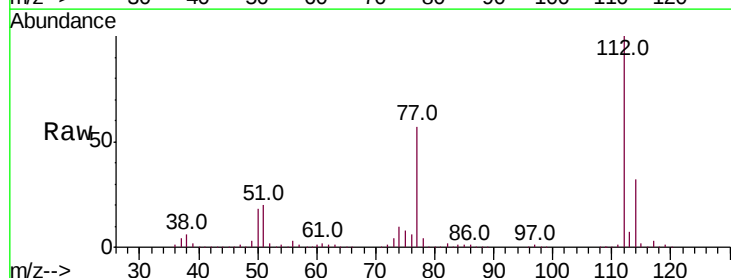
Tgt Ion:112 Resp: 796464

Ion Ratio Lower Upper

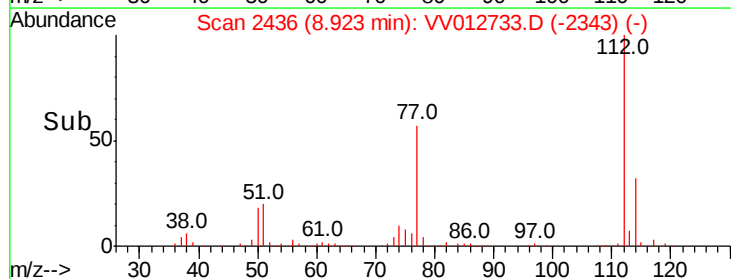
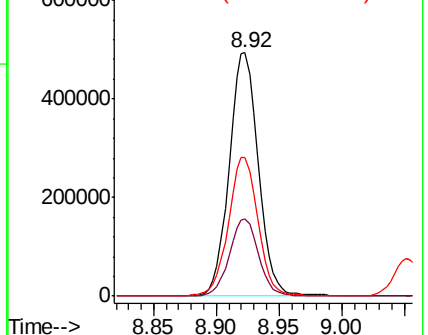
112 100

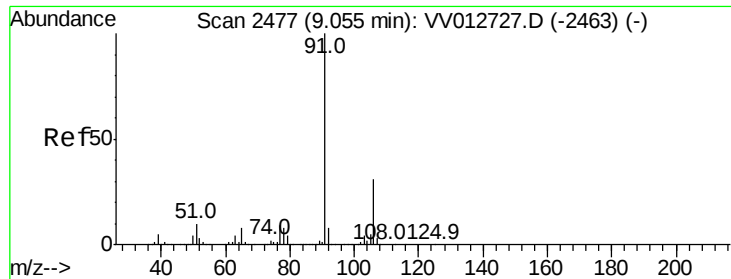
114 31.8 22.4 41.6

77 56.8 46.7 70.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

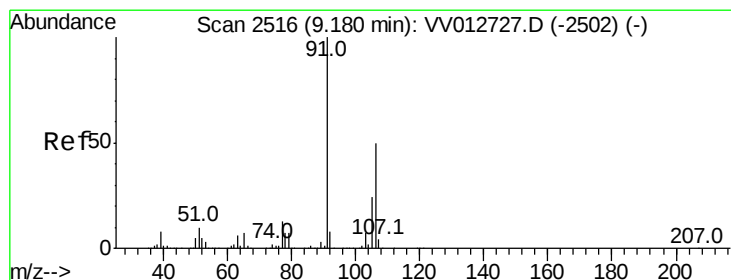
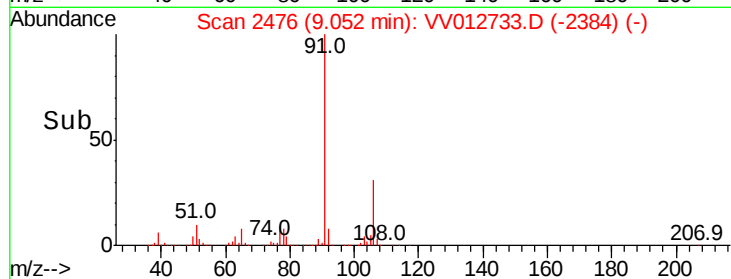
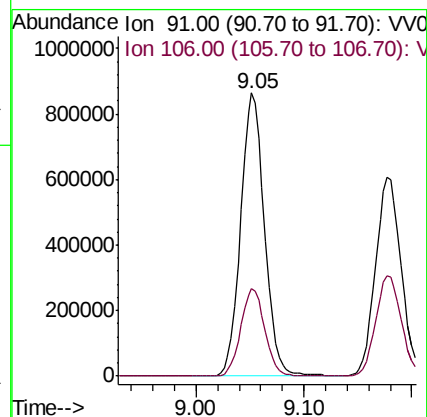
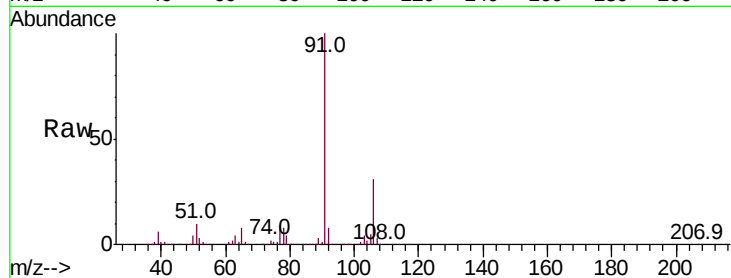




#52
Ethylbenzene
Concen: 51.691 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

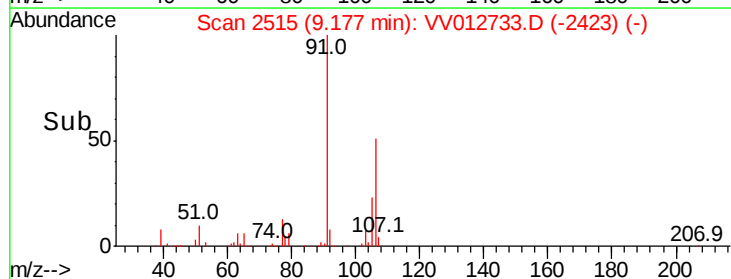
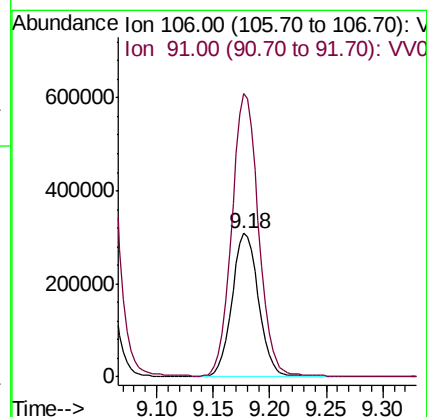
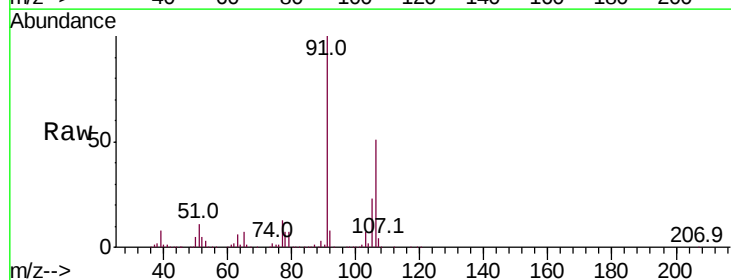
Instrument :
MSVOA_V
ClientSampleId :

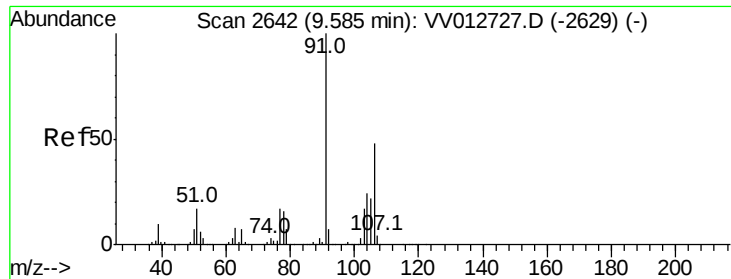
Tot Ion: 91 Resp: 1333792
Ion Ratio Lower Upper
91 100
106 30.8 21.4 39.8



#53
m,p-Xylene
Concen: 53.004 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV012733.D
Acq: 13 Sep 2019 17:51

Tgt Ion: 106 Resp: 503673
Ion Ratio Lower Upper
106 100
91 197.5 139.9 259.7





#54

o-xylene

Concen: 51.900 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

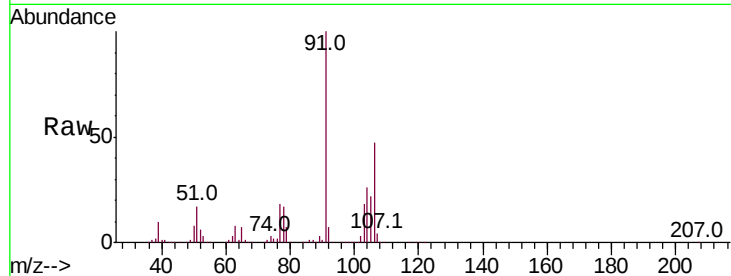
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 500662

Ion Ratio Lower Upper

106 100

91 213.8 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

800000

600000

400000

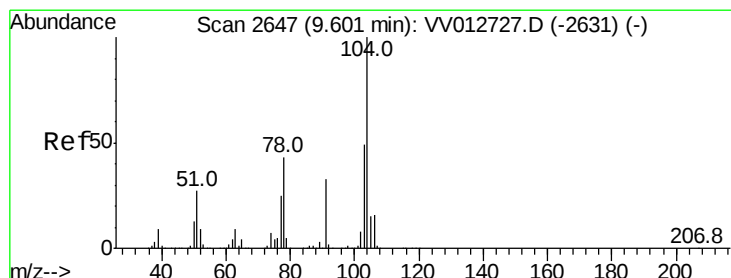
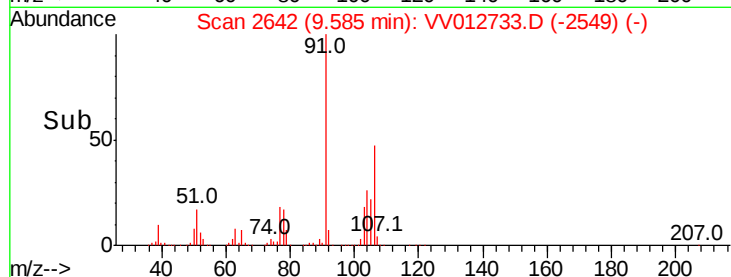
200000

0

9.59

9.50 9.60 9.70

Time-->



#55

Styrene

Concen: 53.765 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012733.D

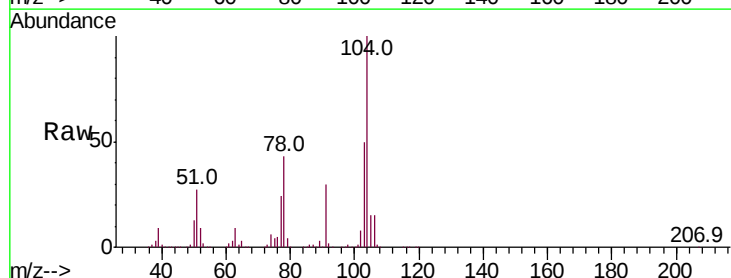
Acq: 13 Sep 2019 17:51

Tgt Ion:104 Resp: 879716

Ion Ratio Lower Upper

104 100

78 43.3 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

600000

500000

400000

300000

200000

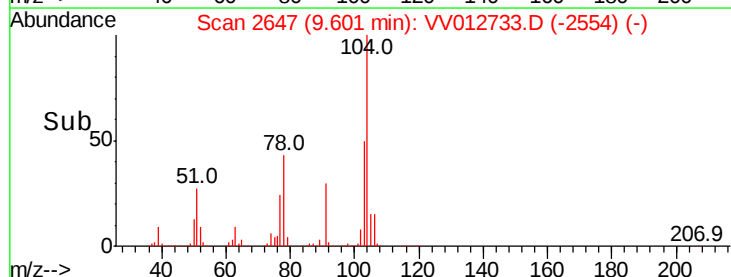
100000

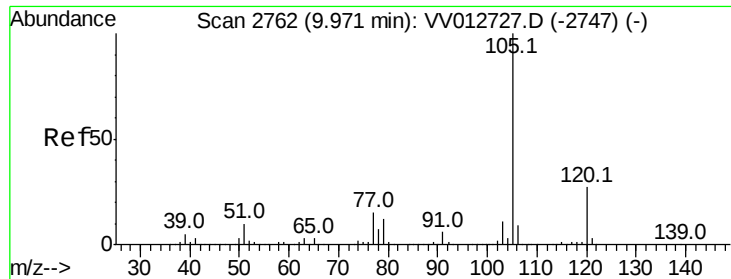
0

9.60

9.50 9.60 9.70

Time-->





#56

Isopropylbenzene

Concen: 53.549 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

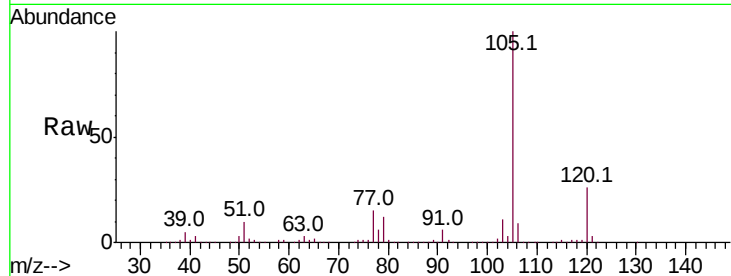
Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:105 Resp: 1357270

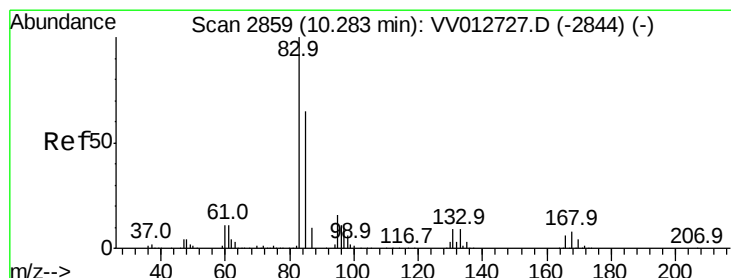
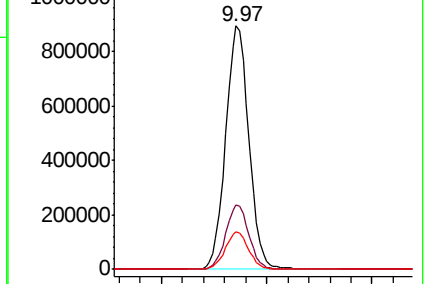
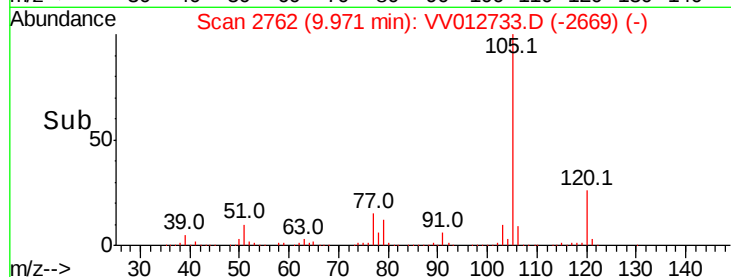
Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.4	32.2
77	15.2	12.4	18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.504 ug/L

RT: 10.28 min Scan# 2859

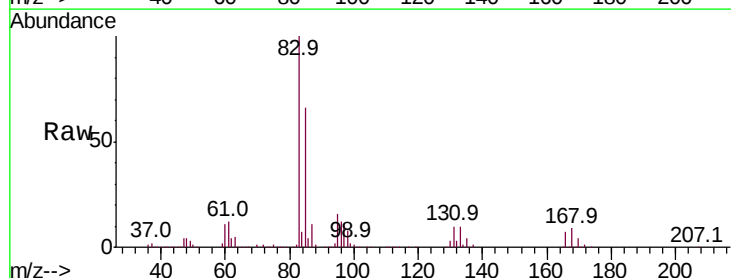
Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Tgt Ion: 83 Resp: 437326

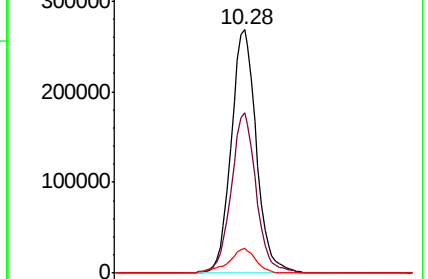
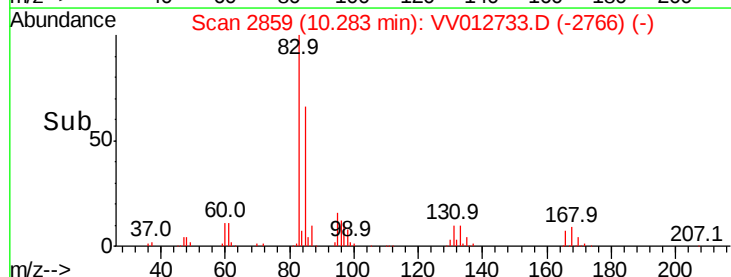
Ion	Ratio	Lower	Upper
83	100		
85	65.6	45.4	84.4
131	10.1	7.6	11.4

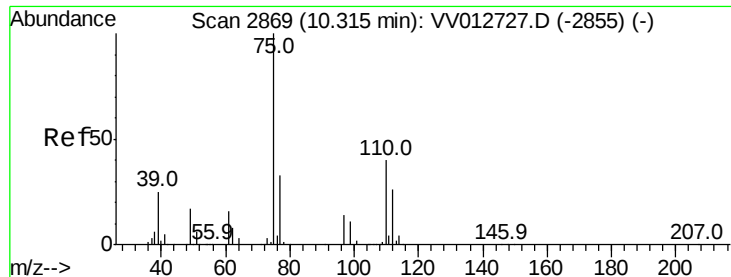


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

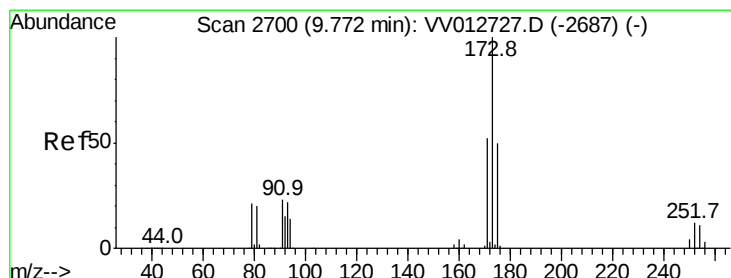
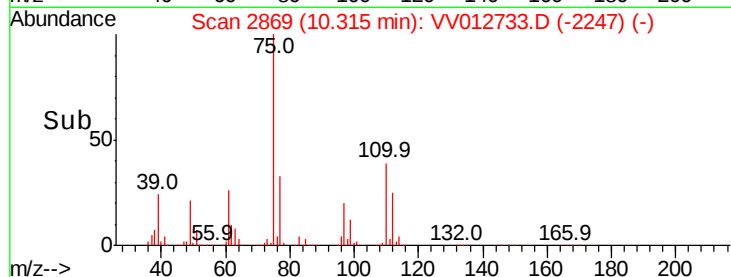
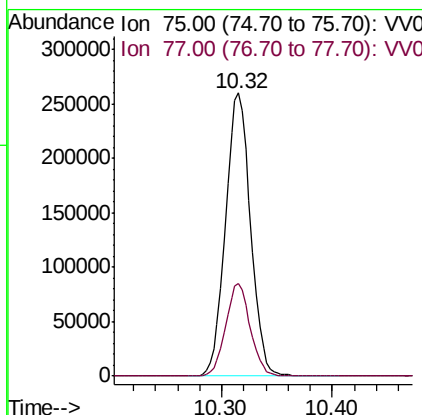
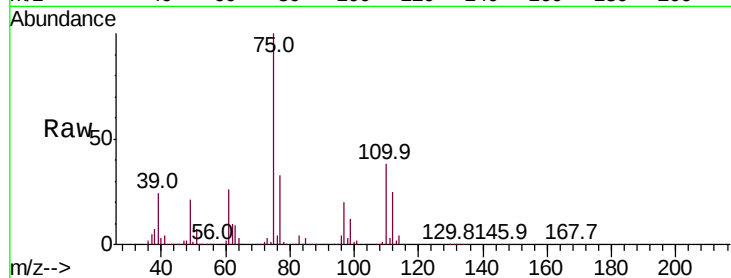




#59
 1,2,3-Trichloropropane
 Concen: 49.403 ug/L
 RT: 10.32 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

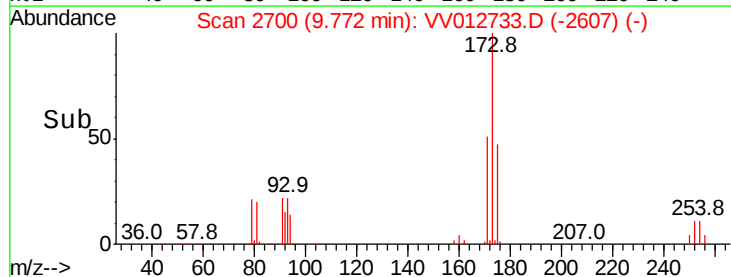
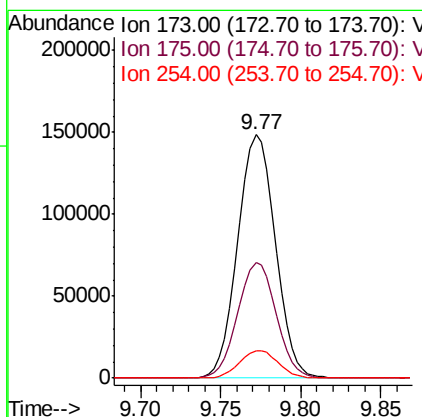
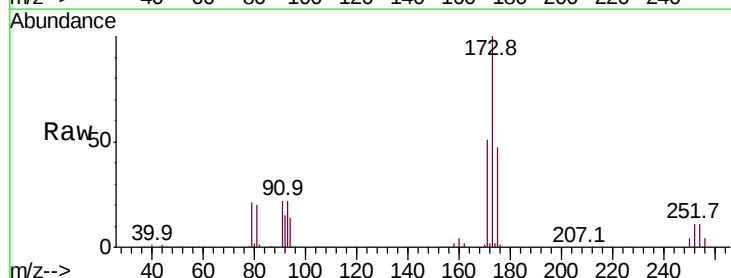
Instrument :
 MSVOA_V
 ClientSampleId :

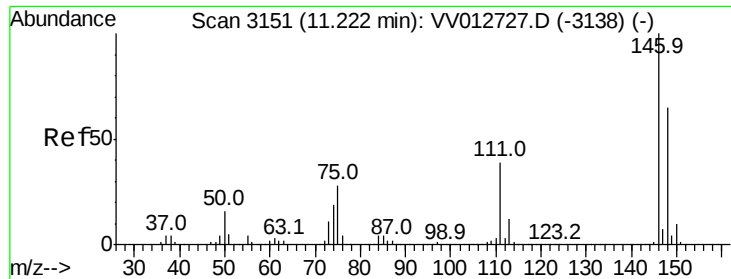
Tot Ion: 75 Resp: 408712
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.9 38.9



#61
 Bromoform
 Concen: 48.667 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Tgt Ion: 173 Resp: 238587
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.3 58.9
 254 11.6 8.9 13.3

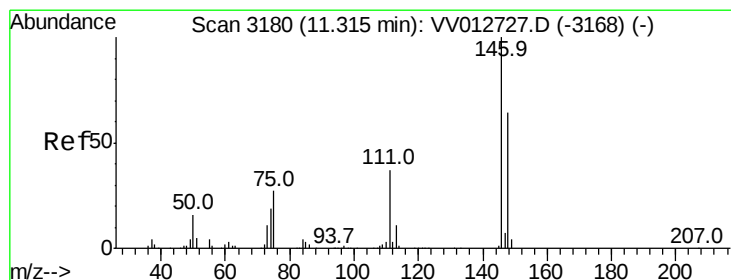
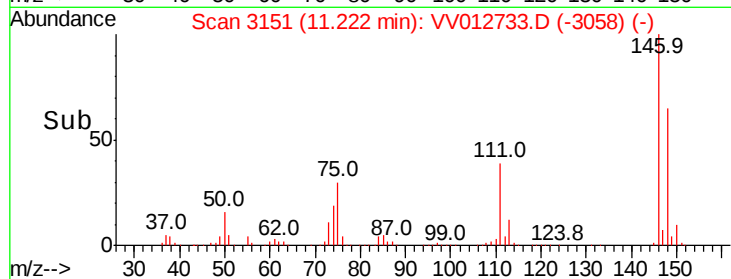
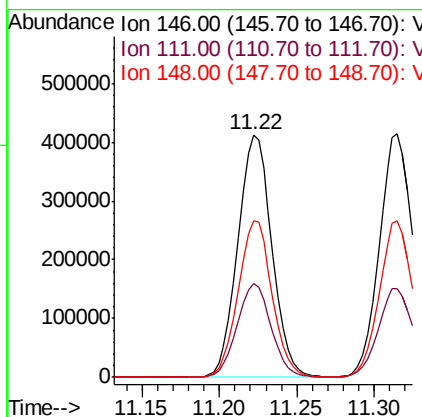
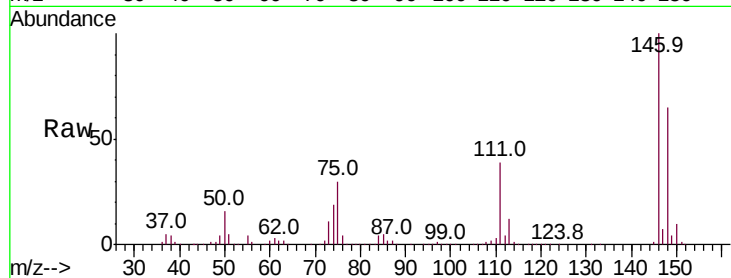




#62
 1,3-Dichlorobenzene
 Concen: 50.357 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

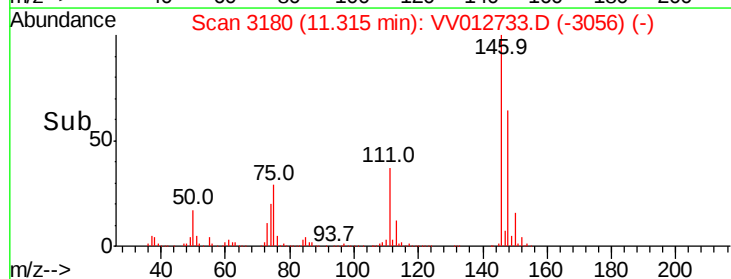
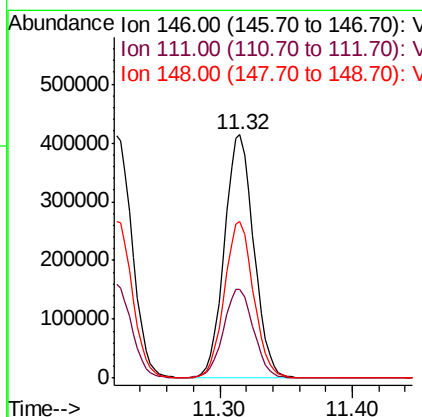
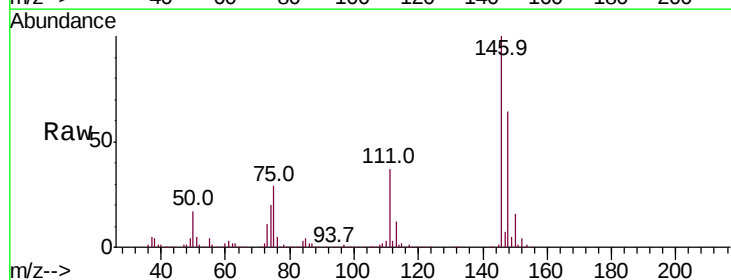
Instrument :
 MSVOA_V
 ClientSampled :

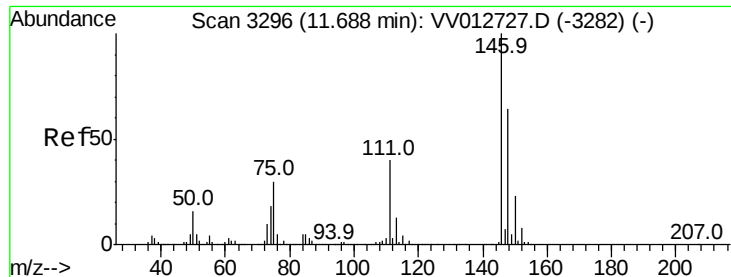
Tot Ion:146 Resp: 631476
 Ion Ratio Lower Upper
 146 100
 111 38.7 27.2 50.6
 148 64.7 45.2 84.0



#63
 1,4-Dichlorobenzene
 Concen: 49.442 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Tgt Ion:146 Resp: 635982
 Ion Ratio Lower Upper
 146 100
 111 36.6 26.2 48.8
 148 64.5 45.0 83.6





#65

1,2-Dichlorobenzene

Concen: 49.713 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :

MSVOA_V

ClientSampled :

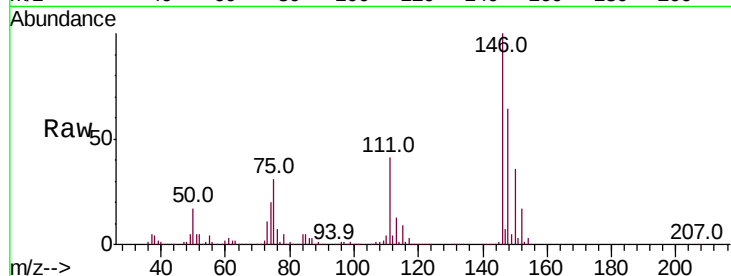
Tot Ion:146 Resp: 655482

Ion Ratio Lower Upper

146 100

111 40.8 32.2 48.2

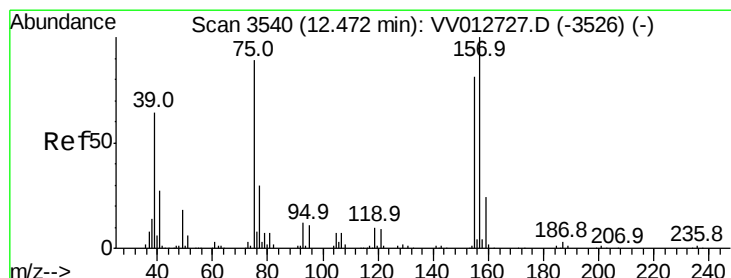
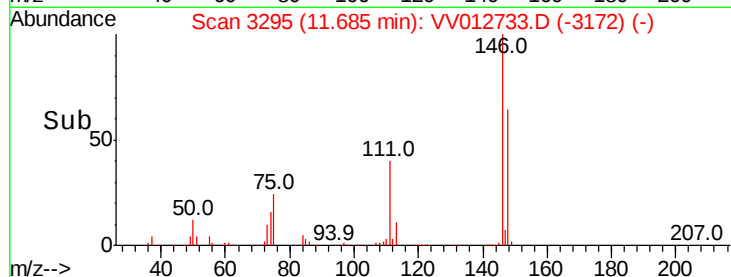
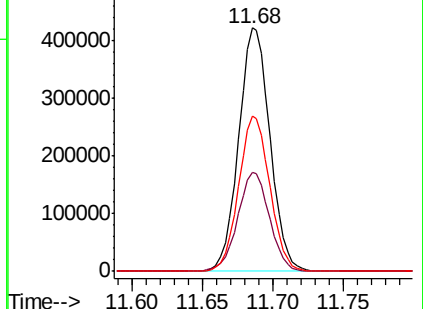
148 63.6 51.5 77.3



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: 48.534 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

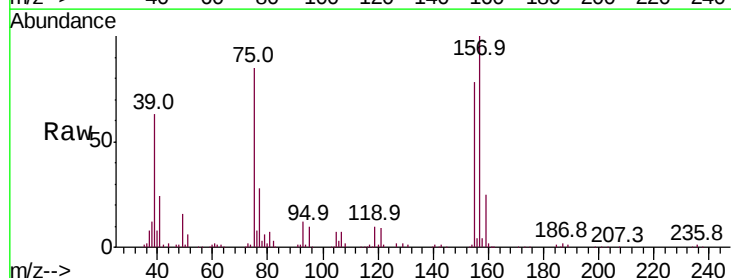
Tgt Ion: 75 Resp: 85429

Ion Ratio Lower Upper

75 100

155 91.2 73.4 110.0

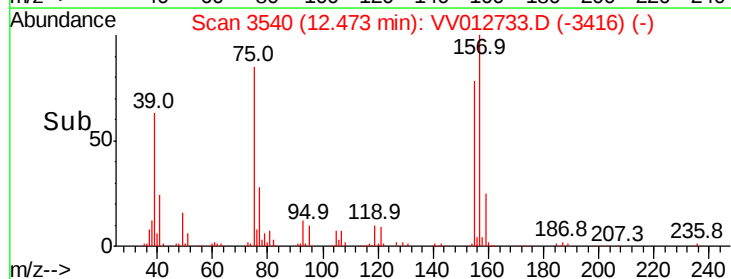
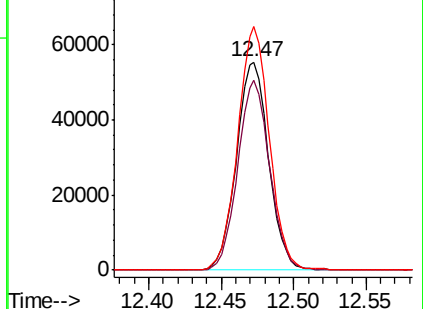
157 117.2 90.2 135.2

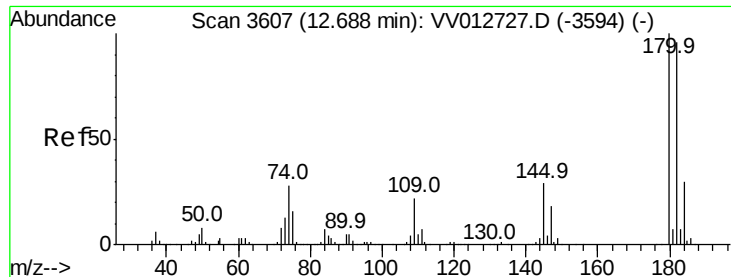


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

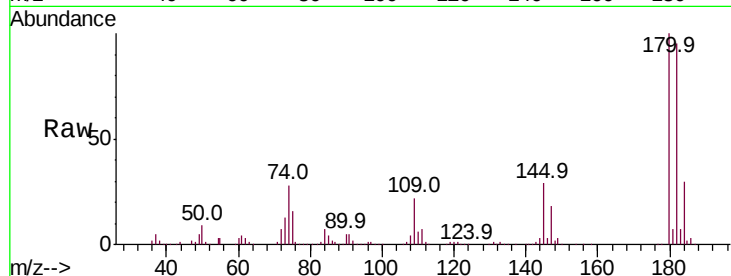




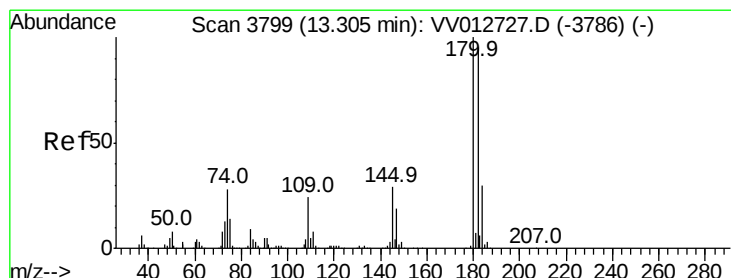
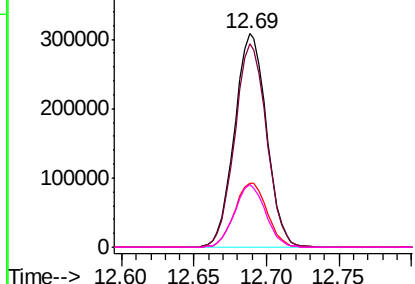
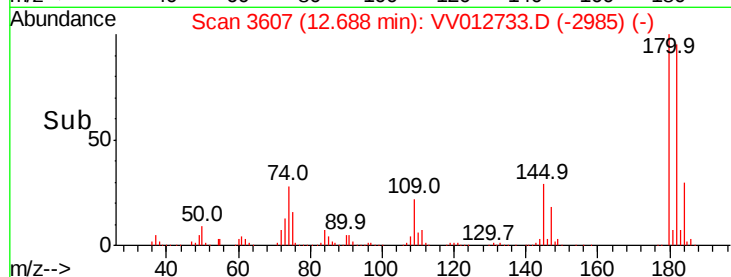
#67
 1,3,5-Trichlorobenzene
 Concen: 51.016 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	472626
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.7	115.1
184	30.7	24.4	36.6
145	28.4	22.6	33.8

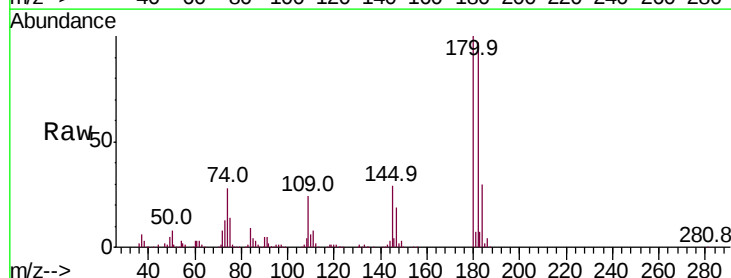


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

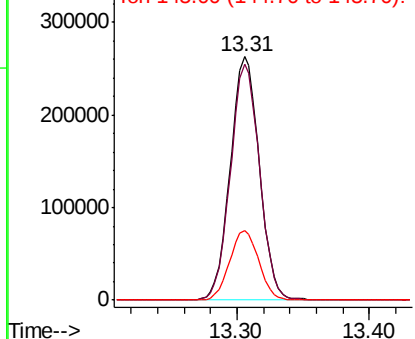
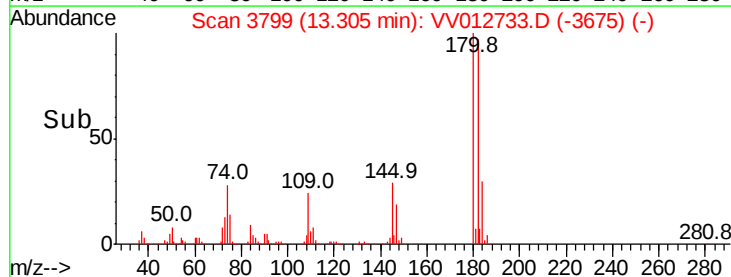


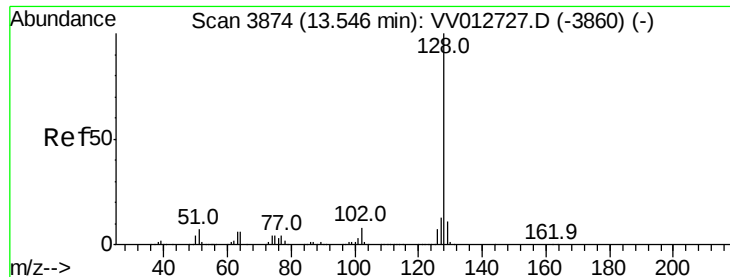
#68
 1,2,4-trichlorobenzene
 Concen: 51.150 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012733.D
 Acq: 13 Sep 2019 17:51

Tgt Ion:	180	Resp:	400383
Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.8	115.2
145	28.7	23.0	34.4



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





#69

Naphthalene

Concen: 54.061 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

Instrument :

MSVOA_V

ClientSampleId :

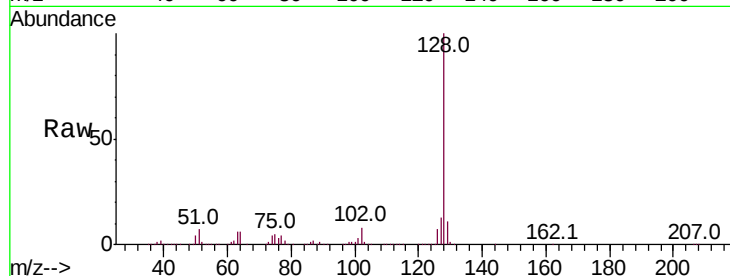
Tot Ion:128 Resp: 1223316

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

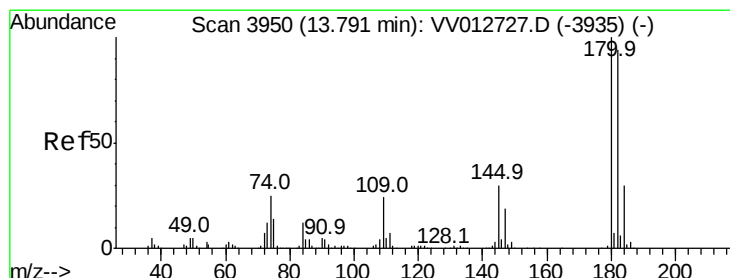
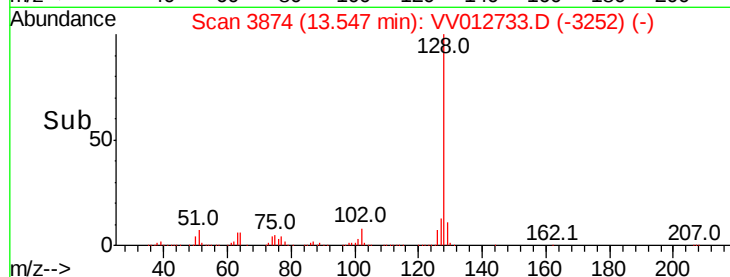
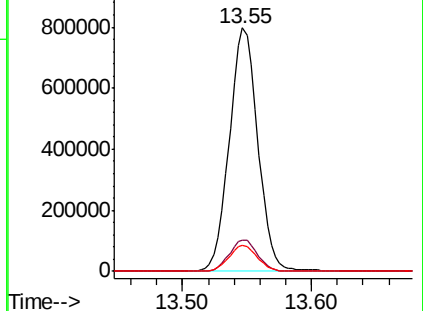
129 10.7 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.004 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV012733.D

Acq: 13 Sep 2019 17:51

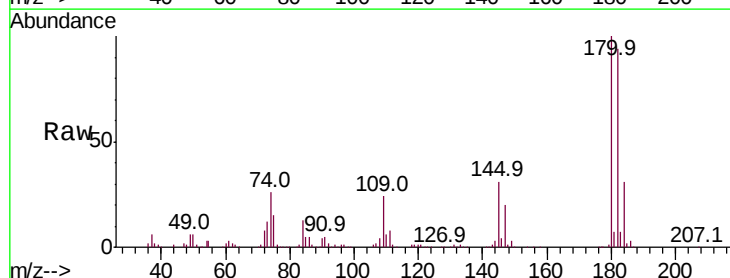
Tgt Ion:180 Resp: 441882

Ion Ratio Lower Upper

180 100

182 95.1 75.6 113.4

145 30.7 24.2 36.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

