

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100218\
 Data File : VW005767.D
 Acq On : 02 Oct 2018 10:27
 Operator : SY/AP
 Sample : VSTDCCC0025
 Misc : 5.00G/105ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 03 05:01:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092818S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 02 07:19:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	257517	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	243575	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	127367	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	78627	23.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.80%
7) Chloroethane-d5	2.90	69	65255	25.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.92%
10) 1,1-Dichloroethene-d2	4.01	63	171074	23.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.48%
20) 2-Butanone-d5	7.09	46	68389	64.89	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	129.78%
24) Chloroform-d	7.65	84	179818	27.18	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	108.72%
26) 1,2-Dichloroethane-d4	8.31	65	111249	27.77	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.08%
29) Benzene-d6	8.27	84	335611	27.83	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	111.32%
33) 1,2-Dichloropropane-d6	9.28	67	100011	28.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	114.80%
37) Toluene-d8	10.33	98	320135	26.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.56%
38) trans-1,3-Dichloropropene-	10.58	79	48953	26.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.96%
39) 2-Hexanone-d5	10.93	63	55478	67.98	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	135.96%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	104767	30.95	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	123.80%#
61) 1,2-Dichlorobenzene-d4	13.87	152	124936	27.72	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	110.88%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.02	85	73797	24.439	ug/L	97
3) Chloromethane	2.21	50	55892	19.870	ug/L	98
5) Vinyl chloride	2.37	62	89553	22.080	ug/L	100
6) Bromomethane	2.79	94	52604	21.557	ug/L	98
8) Chloroethane	2.93	64	50719	22.491	ug/L	97
9) Trichlorofluoromethane	3.26	101	63180	20.387	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	83114	23.741	ug/L #	85
13) Acetone	4.15	43	53706	48.935	ug/L	72
14) Carbon disulfide	4.38	76	218530	20.845	ug/L	98
15) Methyl Acetate	4.68	43	47972	24.630	ug/L	99
16) Methylene chloride	4.92	84	81671	19.235	ug/L	97
17) Methyl tert-butyl Ether	5.43	73	117848	22.152	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	74177	21.571	ug/L	98
19) 1,1-Dichloroethane	6.21	63	142420	22.383	ug/L	99
21) 2-Butanone	7.18	43	67822	51.601	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	84319	22.558	ug/L	97
23) Bromochloromethane	7.52	128	39610	22.833	ug/L	97

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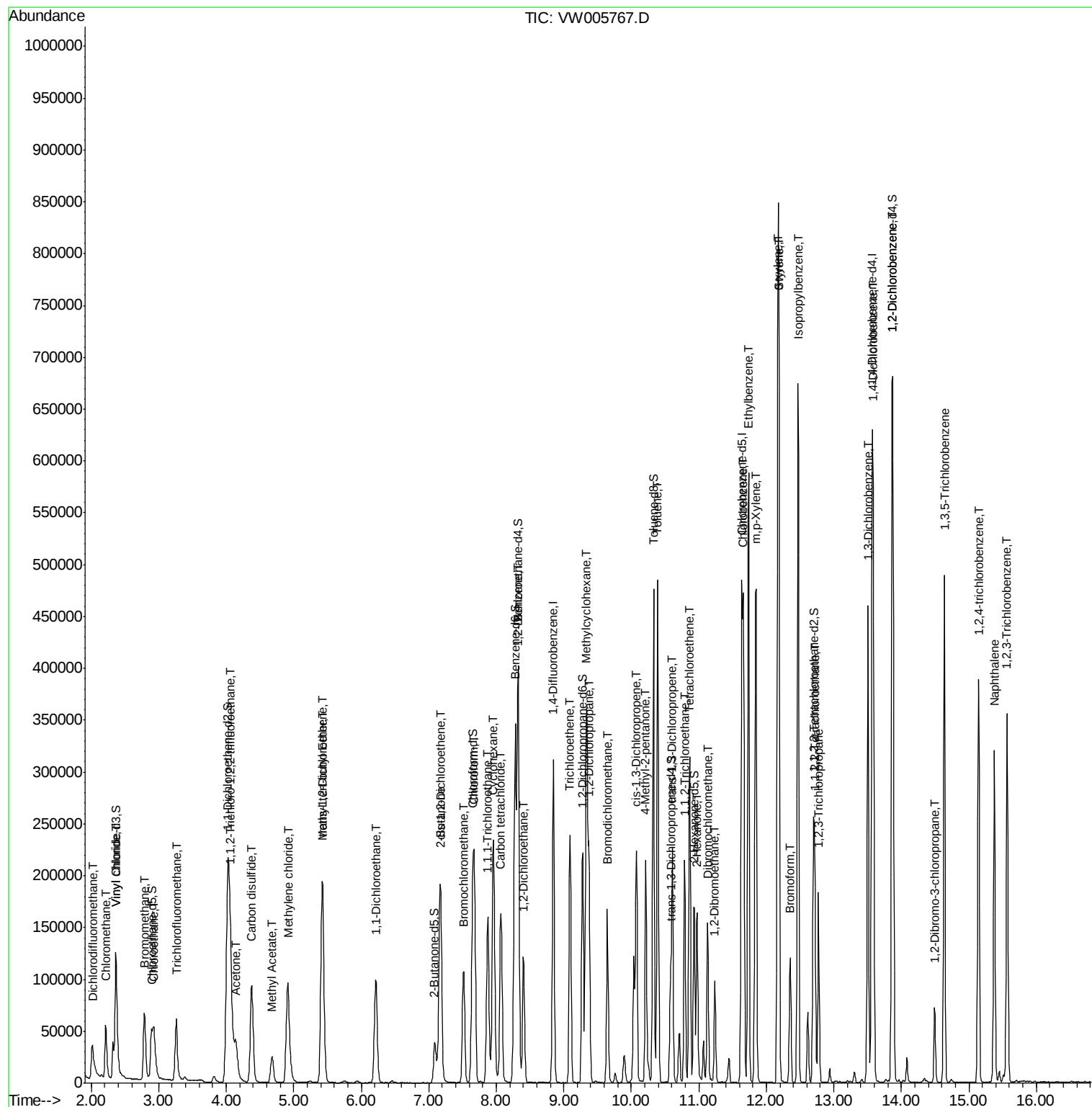
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.68	83	155189	22.795	ug/L	99
27) 1,2-Dichloroethane	8.40	62	114598	22.862	ug/L	98
30) Cyclohexane	7.96	56	126036	22.830	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	135505	22.717	ug/L	99
32) Carbon tetrachloride	8.07	117	131034	22.559	ug/L	99
34) Benzene	8.33	78	323059	23.473	ug/L	100
35) Trichloroethene	9.09	95	82829	22.496	ug/L	98
36) Methylcyclohexane	9.34	83	144979	22.644	ug/L	98
40) 1,2-Dichloropropane	9.37	63	81915	24.423	ug/L	100
41) Bromodichloromethane	9.65	83	111196	23.580	ug/L	99
42) cis-1,3-Dichloropropene	10.08	75	127966	23.103	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	138121	50.462	ug/L	99
44) Toluene	10.39	91	350095	22.763	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	122017	23.658	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	66651	23.814	ug/L	99
47) Tetrachloroethene	10.87	164	72439	22.331	ug/L	98
49) 2-Hexanone	10.98	43	101664	52.914	ug/L	99
50) Dibromochloromethane	11.13	129	83417	23.765	ug/L	97
51) 1,2-Dibromoethane	11.24	107	65355	24.153	ug/L	94
52) Chlorobenzene	11.66	112	229674	22.700	ug/L	99
53) Ethylbenzene	11.74	91	402204	22.840	ug/L	99
54) m,p-Xylene	11.84	106	152897	23.046	ug/L	94
55) o-xylene	12.17	106	144410	23.094	ug/L	96
56) Styrene	12.19	104	256808	23.402	ug/L	98
57) Isopropylbenzene	12.47	105	412217	23.079	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.72	83	91849	25.726	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	73942	25.513	ug/L	100
62) Bromoform	12.35	173	56429	24.915	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	183815	22.720	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	192983	22.842	ug/L	97
65) 1,2-Dichlorobenzene	13.88	146	183753	23.604	ug/L	92
66) 1,2-Dibromo-3-chloropropan	14.49	75	18799	25.398	ug/L	99
67) 1,3,5-Trichlorobenzene	14.64	180	155134	23.364	ug/L	98
68) 1,2,4-trichlorobenzene	15.15	180	129275	23.701	ug/L	100
69) Naphthalene	15.38	128	276589	25.307	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	126034	24.654	ug/L	99

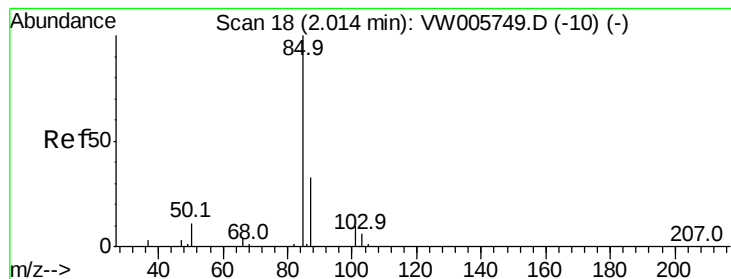
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.439 ug/L

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

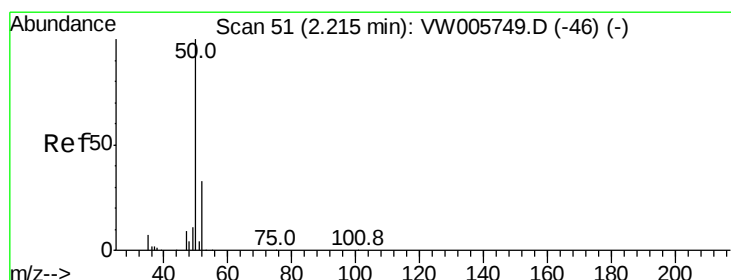
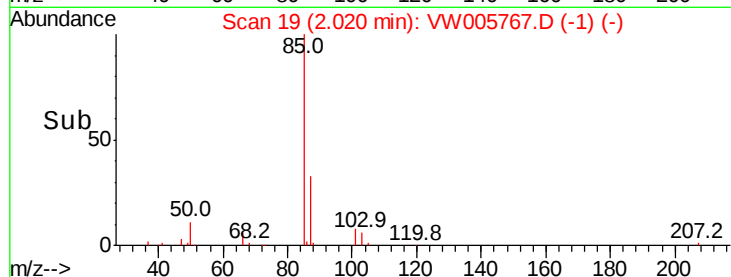
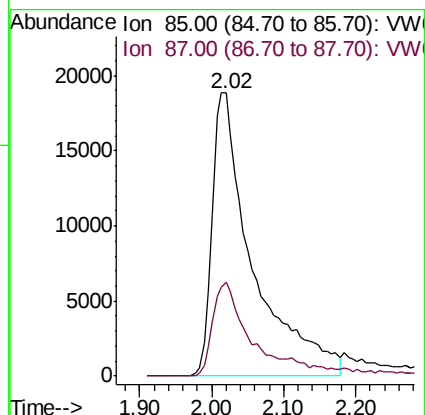
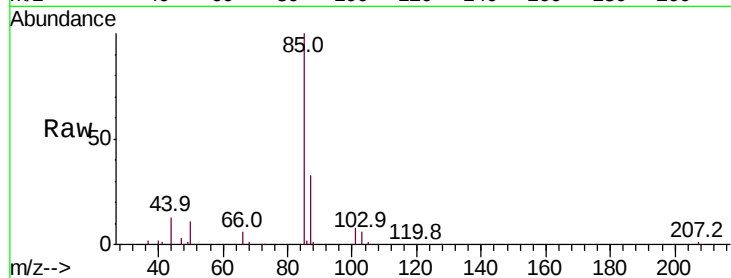
ClientSampled :

Tot Ion: 85 Resp: 73797

Ion Ratio Lower Upper

85 100

87 26.0 19.2 35.6



#3

Chloromethane

Concen: 19.870 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW005767.D

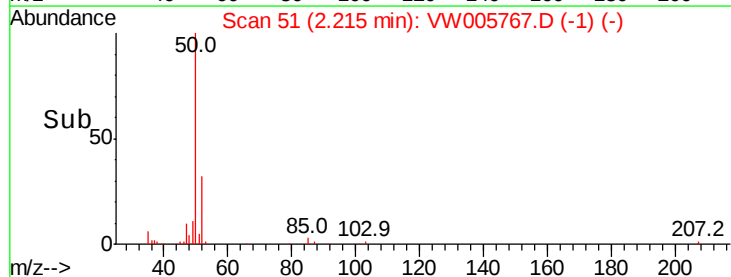
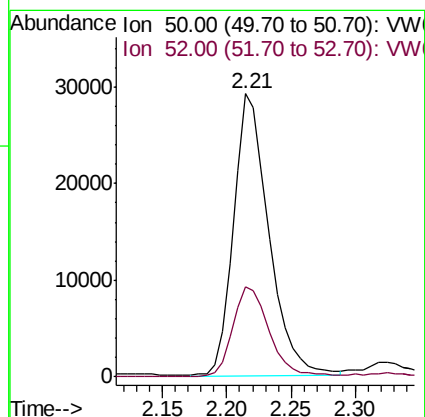
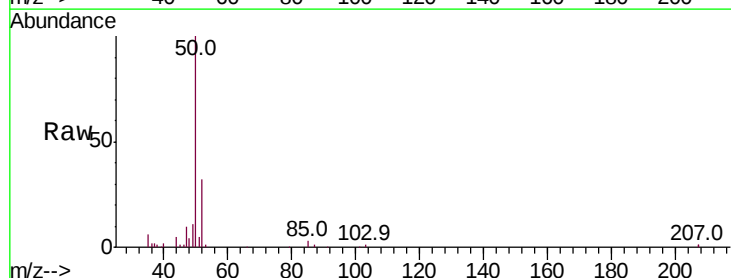
Acq: 02 Oct 2018 10:27

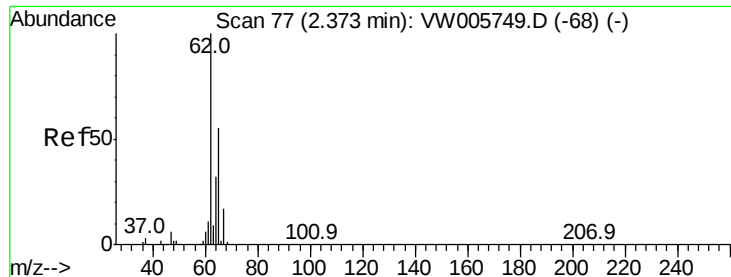
Tgt Ion: 50 Resp: 55892

Ion Ratio Lower Upper

50 100

52 32.0 23.4 43.4





#5

Vinyl chloride

Concen: 22.080 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

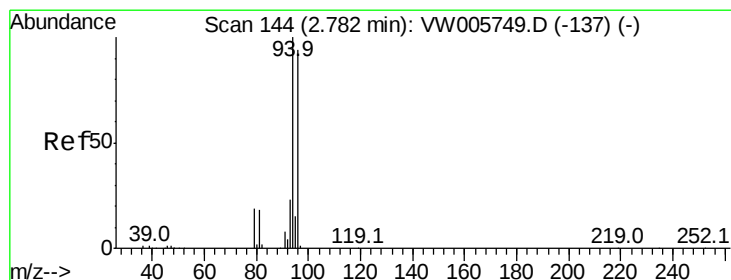
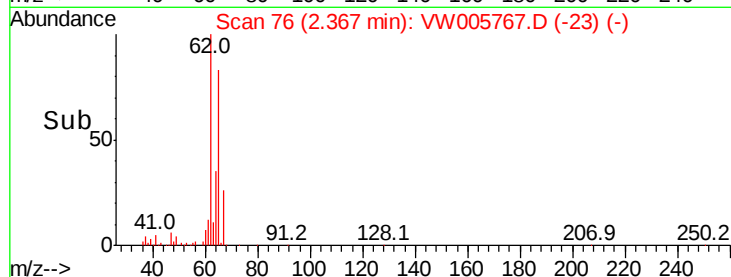
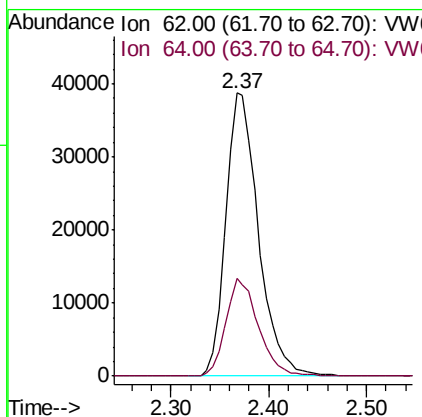
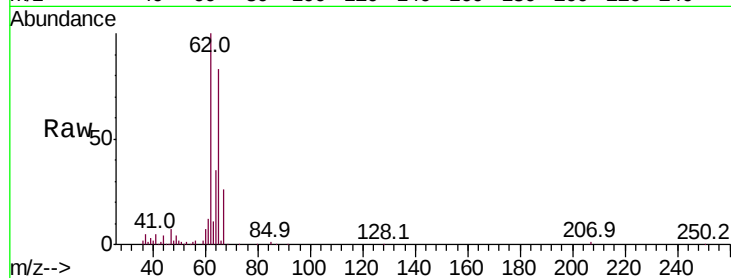
ClientSampleId :

Tot Ion: 62 Resp: 89553

Ion Ratio Lower Upper

62 100

64 34.7 24.1 44.7



#6

Bromomethane

Concen: 21.557 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW005767.D

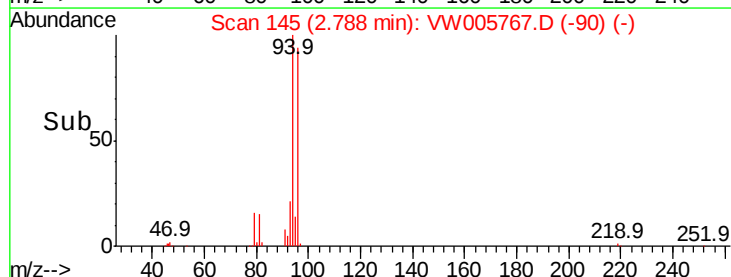
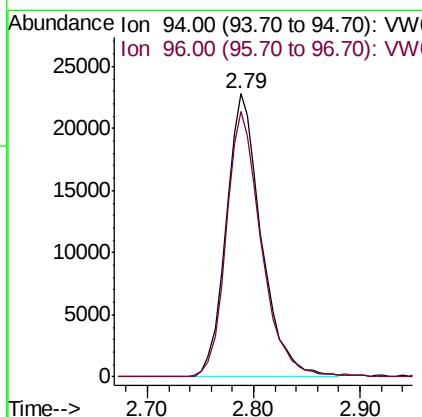
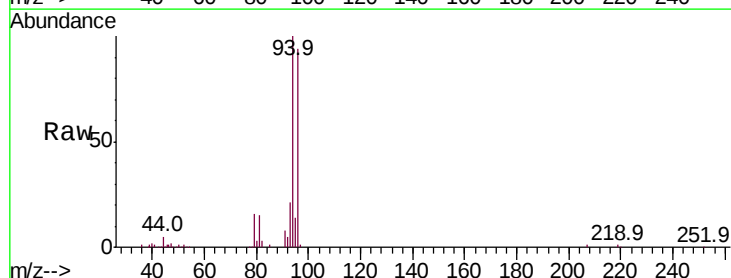
Acq: 02 Oct 2018 10:27

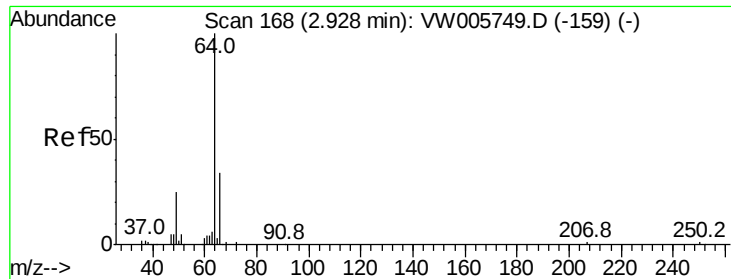
Tgt Ion: 94 Resp: 52604

Ion Ratio Lower Upper

94 100

96 93.4 9.6 181.6





#8

Chloroethane

Concen: 22.491 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

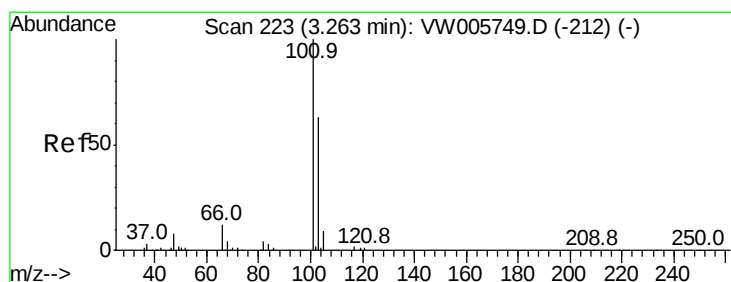
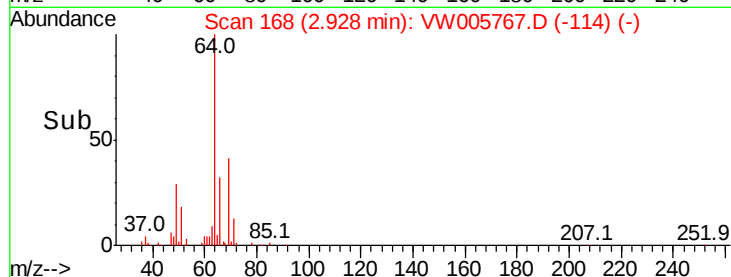
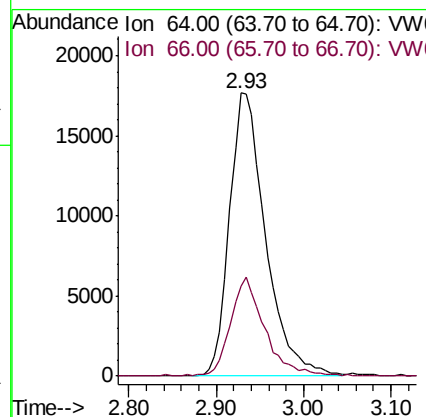
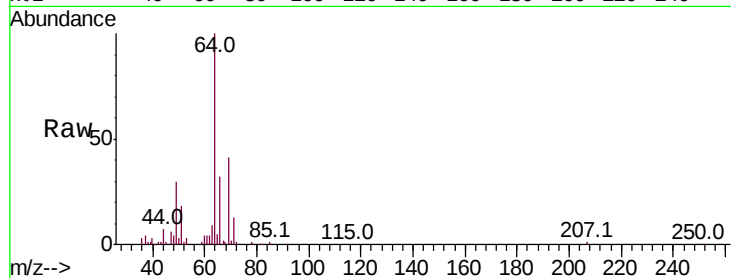
ClientSampleId :

Tot Ion: 64 Resp: 50719

Ion Ratio Lower Upper

64 100

66 32.0 21.1 39.3



#9

Trichlorofluoromethane

Concen: 20.387 ug/L

RT: 3.26 min Scan# 223

Delta R.T. -0.00 min

Lab File: VW005767.D

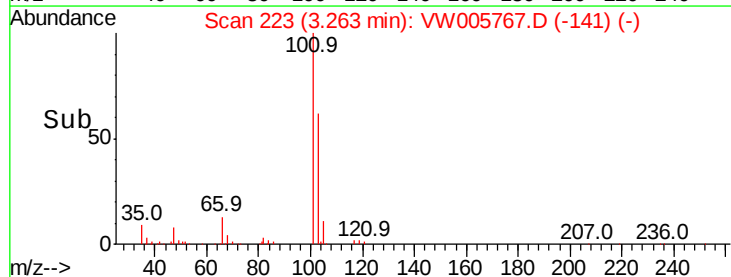
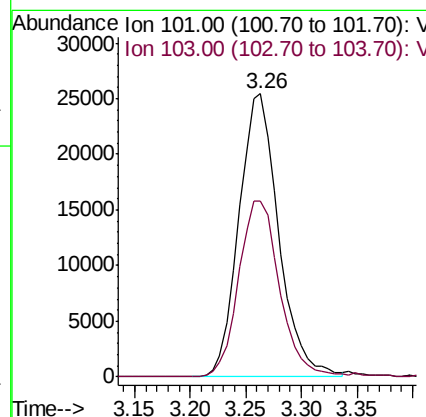
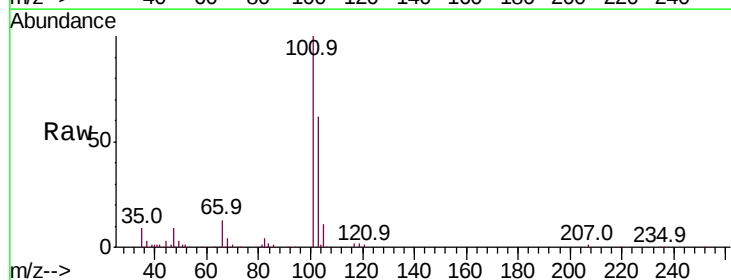
Acq: 02 Oct 2018 10:27

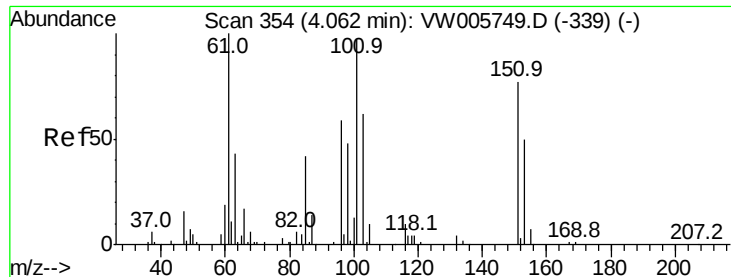
Tgt Ion: 101 Resp: 63180

Ion Ratio Lower Upper

101 100

103 64.0 44.9 83.5





#11

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

Concen: 23.741 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampleId :

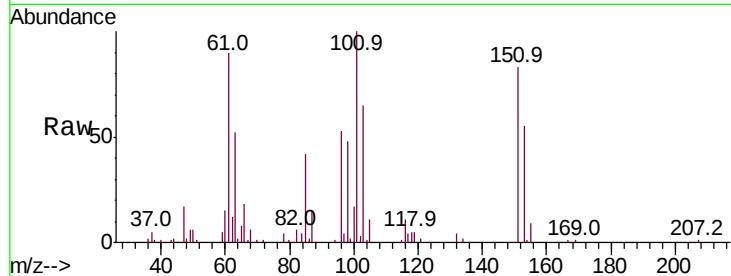
Tot Ion:101 Resp: 83114

Ion Ratio Lower Upper

101 100

85 18.2 35.0 52.4#

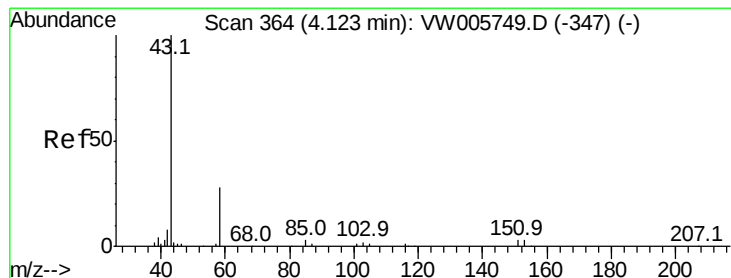
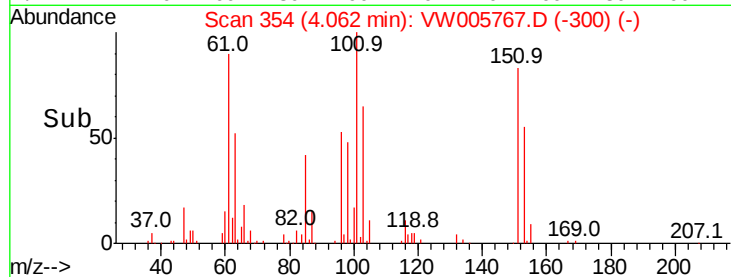
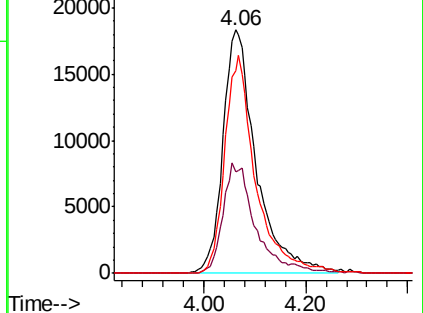
151 81.2 66.4 99.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 48.935 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW005767.D

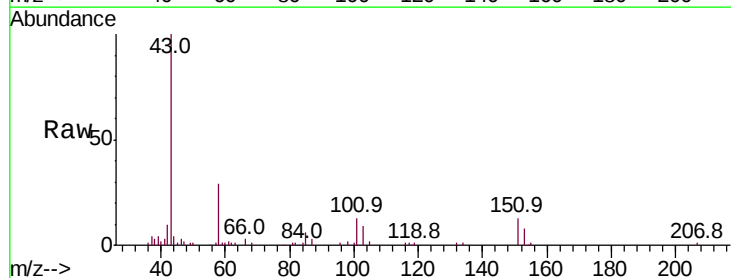
Acq: 02 Oct 2018 10:27

Tgt Ion: 43 Resp: 53706

Ion Ratio Lower Upper

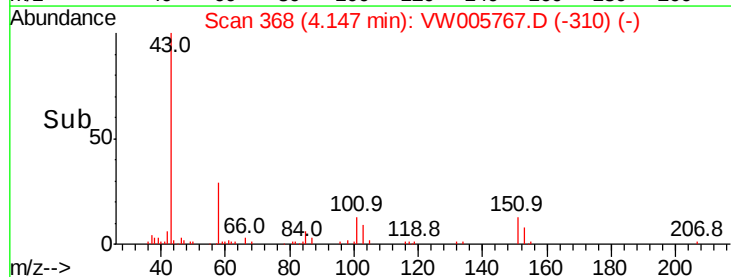
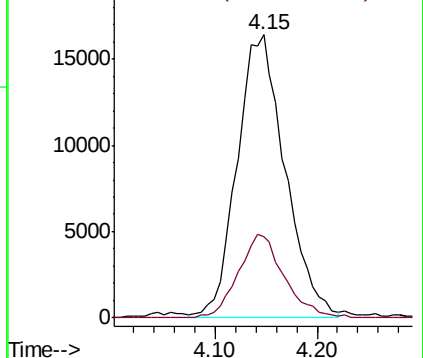
43 100

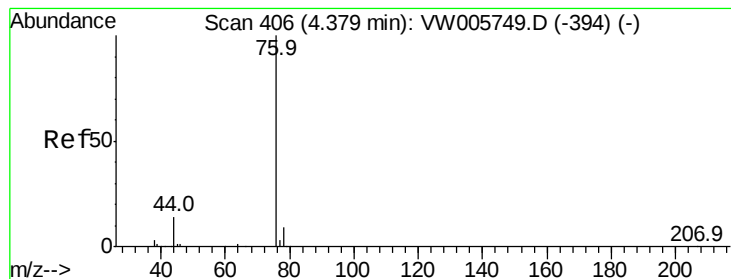
58 27.9 0.0 31.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 20.845 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

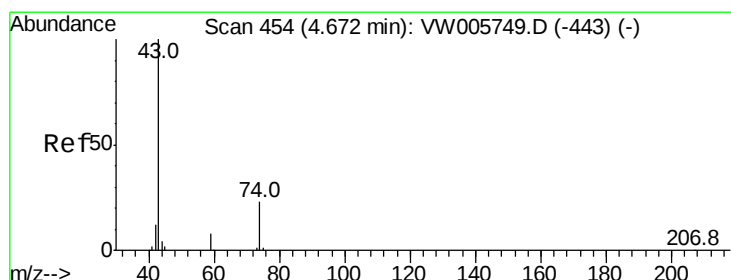
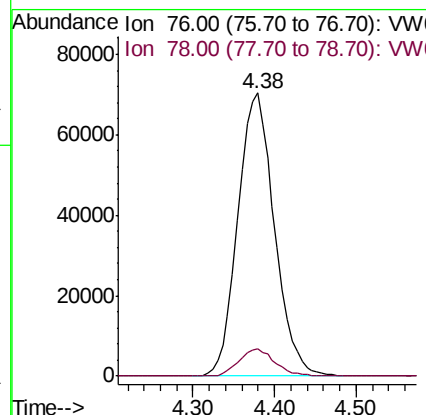
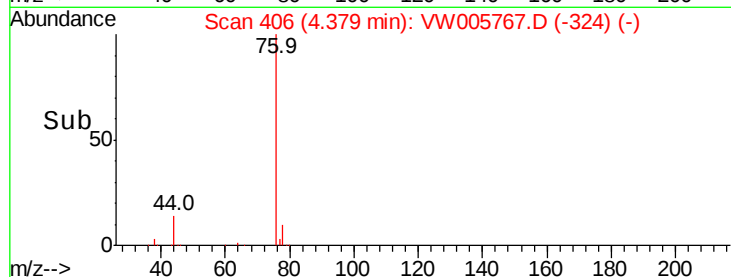
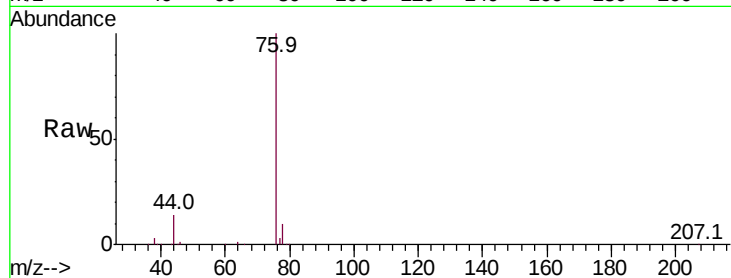
ClientSampled :

Tot Ion: 76 Resp: 218530

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7



#15

Methyl Acetate

Concen: 24.630 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW005767.D

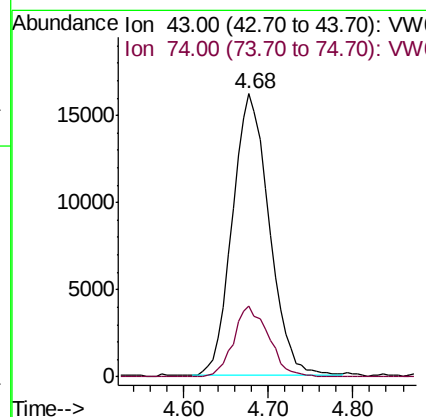
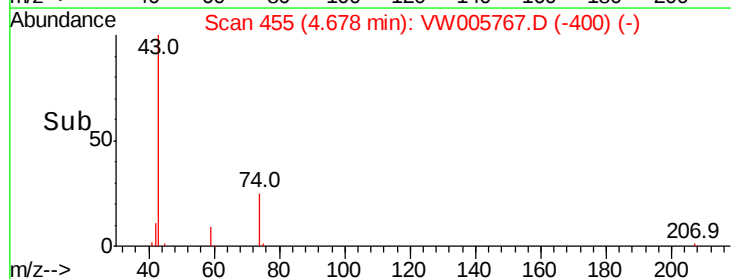
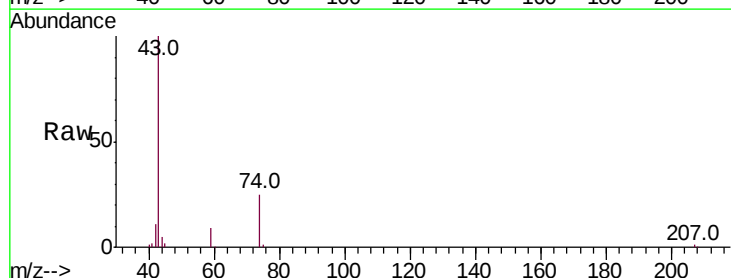
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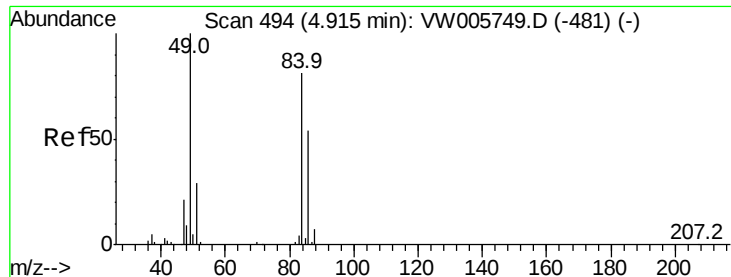
Tgt Ion: 43 Resp: 47972

Ion Ratio Lower Upper

43 100

74 24.0 19.5 29.3

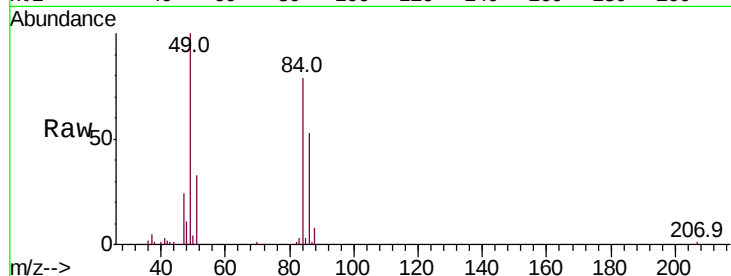




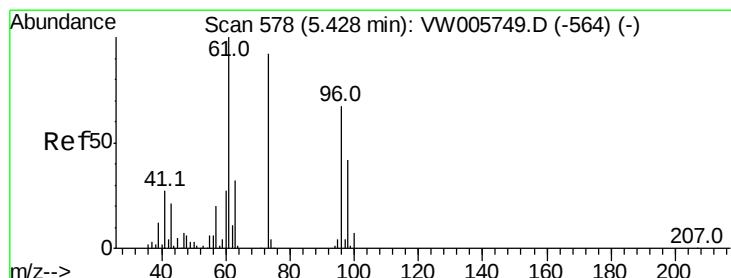
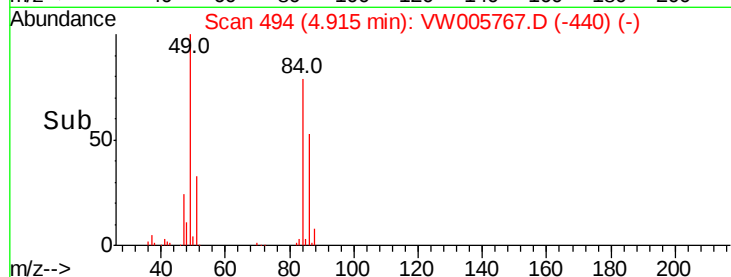
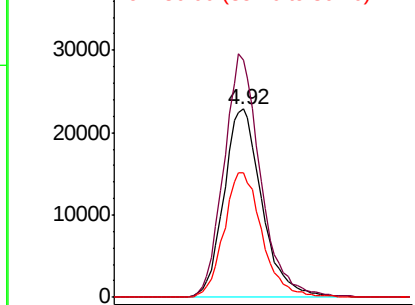
#16
Methylene chloride
Concen: 19.235 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 81671
Ion Ratio Lower Upper
84 100
49 126.2 87.2 162.0
86 66.3 43.2 80.2

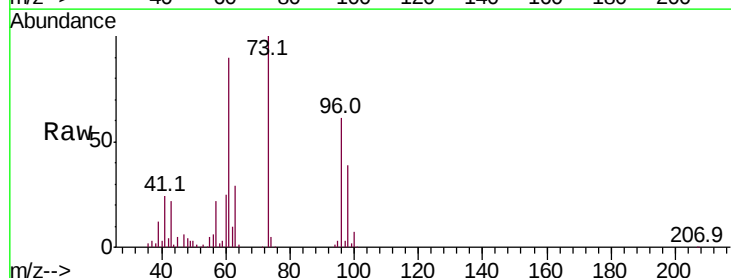


Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 49.00 (48.70 to 49.70): VW
Ion 86.00 (85.70 to 86.70): VW

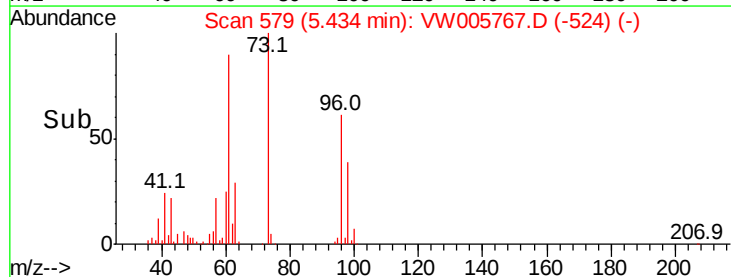
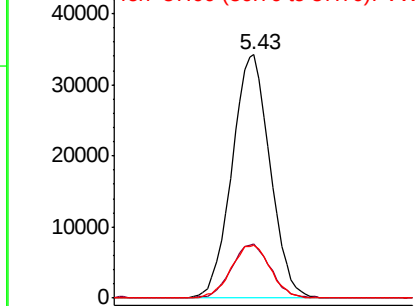


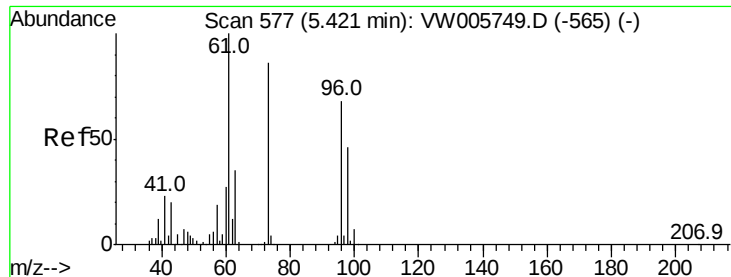
#17
Methyl tert-butyl Ether
Concen: 22.152 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Tgt Ion: 73 Resp: 117848
Ion Ratio Lower Upper
73 100
43 21.8 18.2 27.4
57 22.4 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

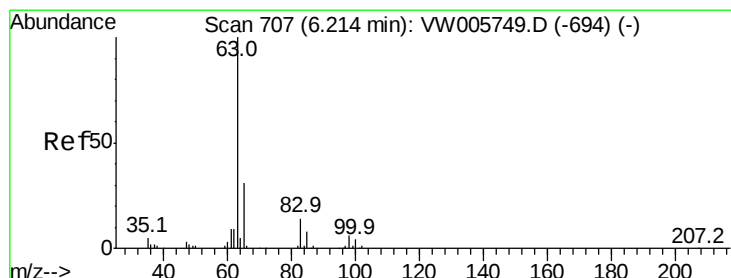
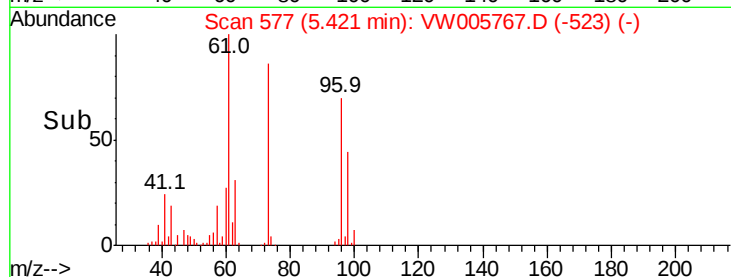
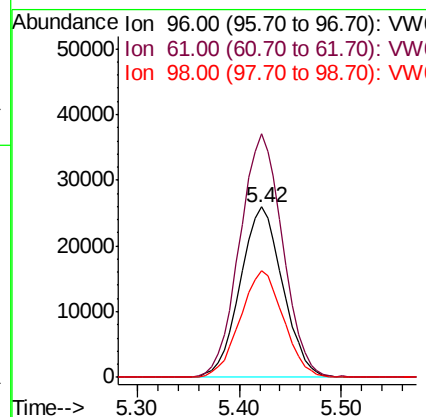
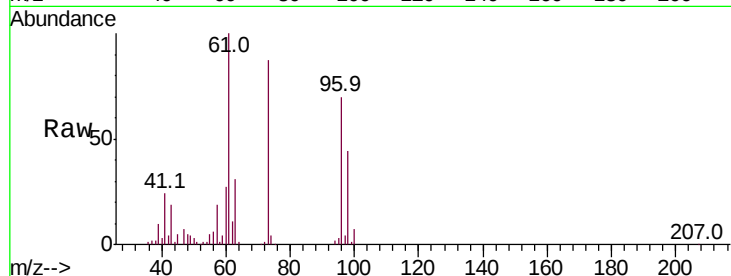




#18
trans-1,2-Dichloroethene
Concen: 21.571 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

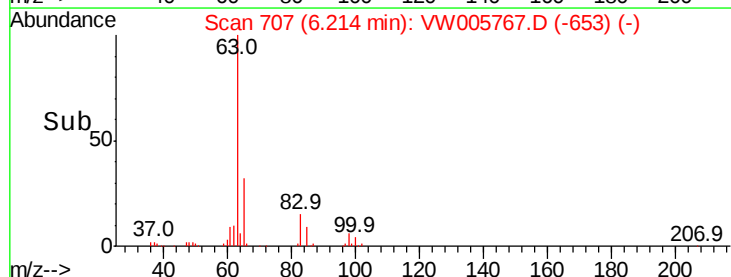
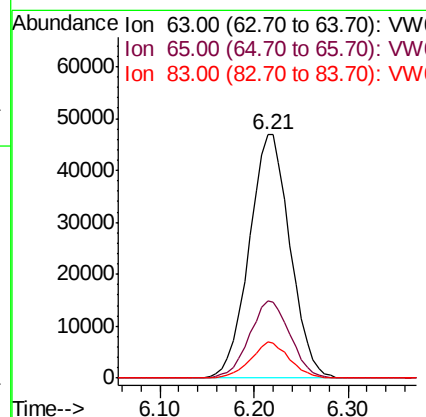
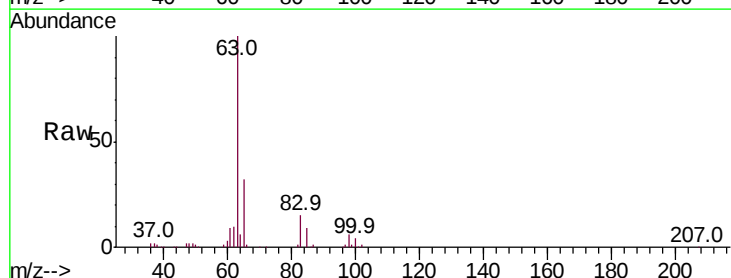
Instrument :
MSVOA_W
ClientSampleId :

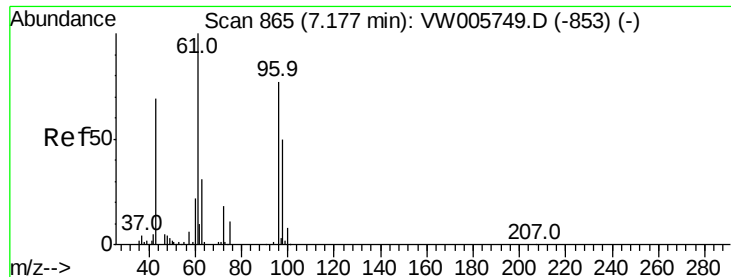
Tot Ion: 96 Resp: 74177
Ion Ratio Lower Upper
96 100
61 143.2 98.6 183.2
98 63.0 43.7 81.1



#19
1,1-Dichloroethane
Concen: 22.383 ug/L
RT: 6.21 min Scan# 707
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Tgt Ion: 63 Resp: 142420
Ion Ratio Lower Upper
63 100
65 31.6 21.8 40.4
83 15.0 9.7 18.1





#21

2-Butanone

Concen: 51.601 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

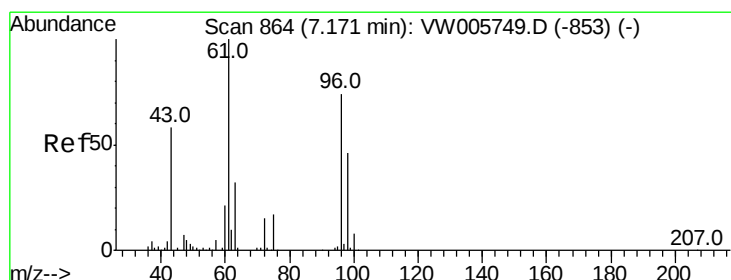
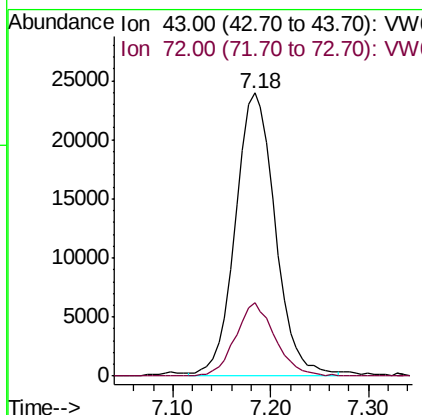
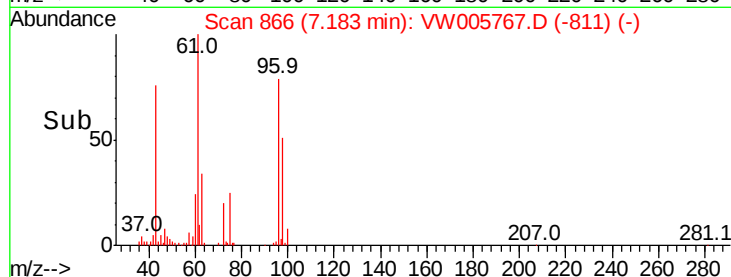
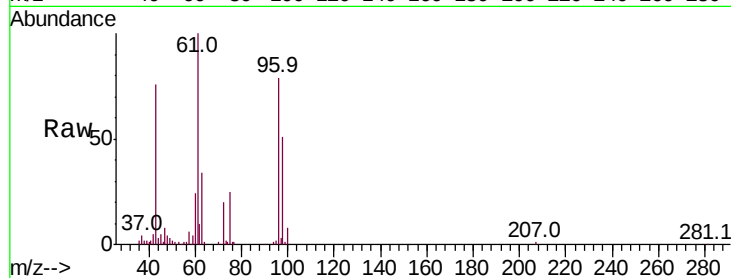
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 67822

Ion Ratio Lower Upper

43 100

72 25.5 13.2 39.6



#22

cis-1,2-Dichloroethene

Concen: 22.558 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

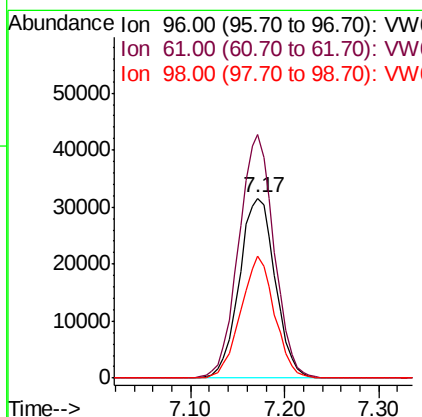
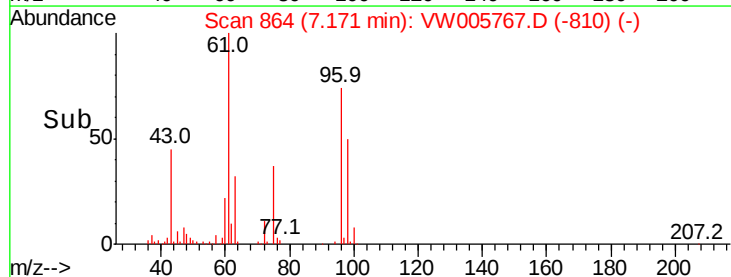
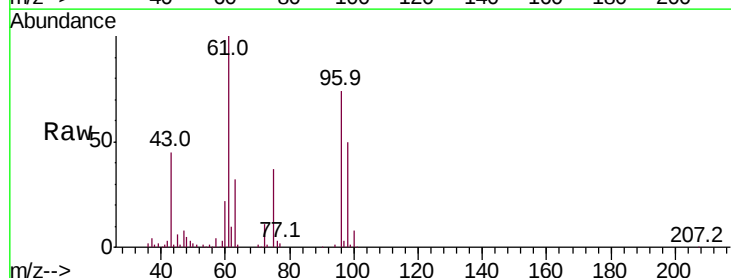
Tgt Ion: 96 Resp: 84319

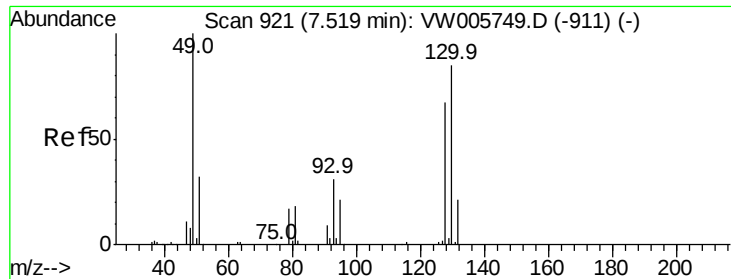
Ion Ratio Lower Upper

96 100

61 135.6 95.7 177.7

98 67.6 44.1 81.9





#23

Bromochloromethane

Concen: 22.833 ug/L

RT: 7.52 min Scan# 921

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampled :

Tot Ion:128 Resp: 39610

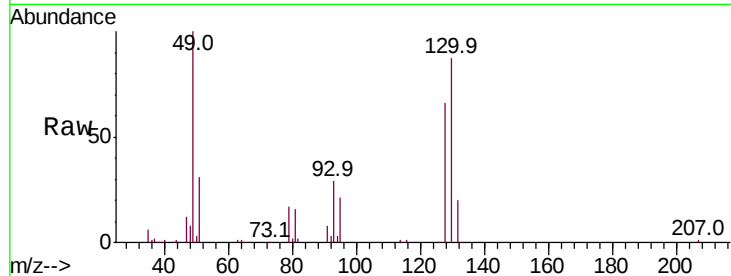
Ion Ratio Lower Upper

128 100

49 152.1 108.1 200.7

130 132.5 89.3 165.9

51 46.9 37.0 55.4

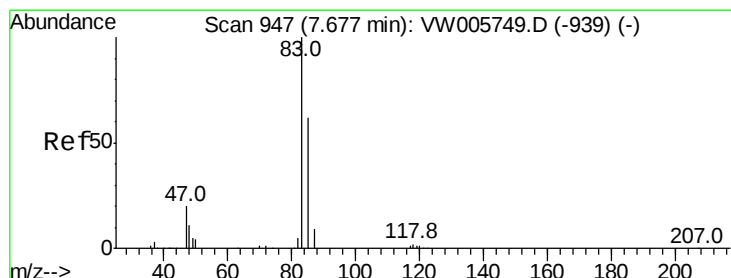
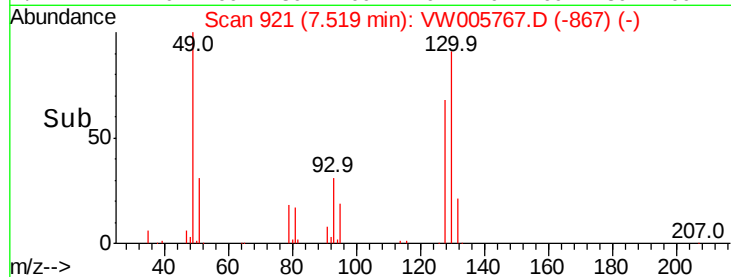
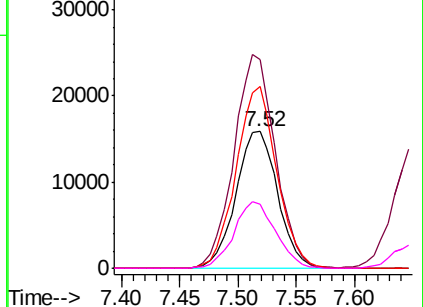


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 22.795 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW005767.D

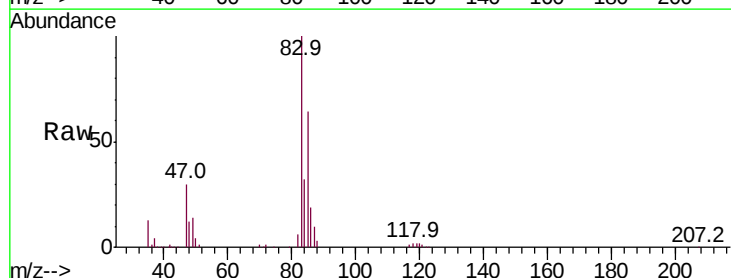
Acq: 02 Oct 2018 10:27

Tgt Ion: 83 Resp: 155189

Ion Ratio Lower Upper

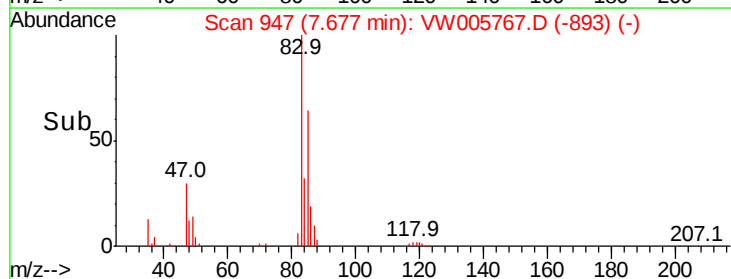
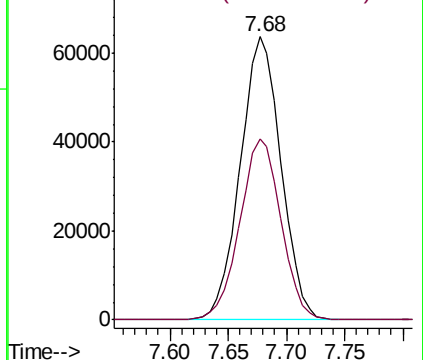
83 100

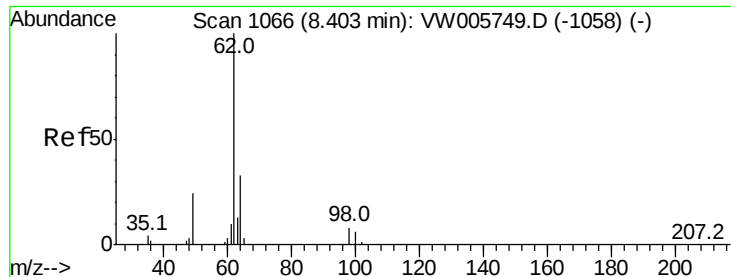
85 64.6 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 22.862 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

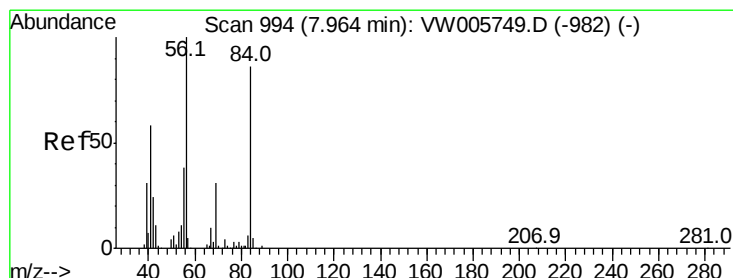
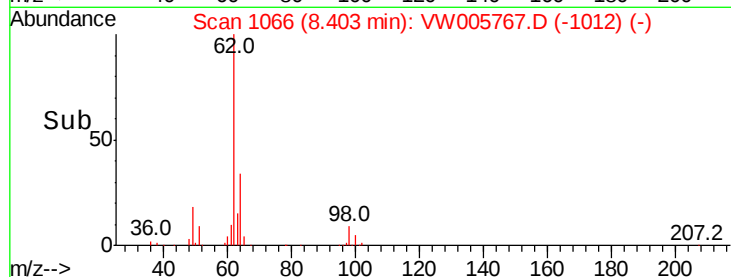
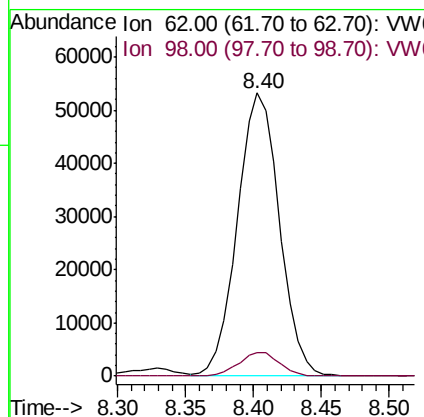
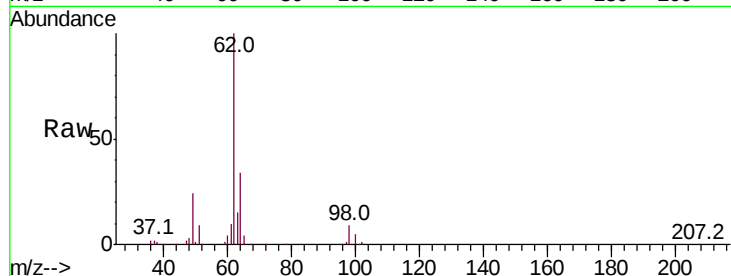
ClientSampled :

Tot Ion: 62 Resp: 114598

Ion Ratio Lower Upper

62 100

98 8.5 6.2 9.2



#30

Cyclohexane

Concen: 22.830 ug/L

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

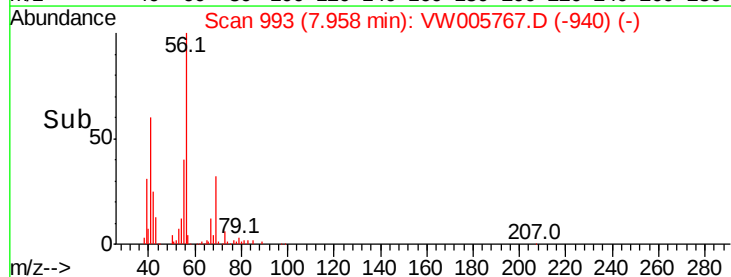
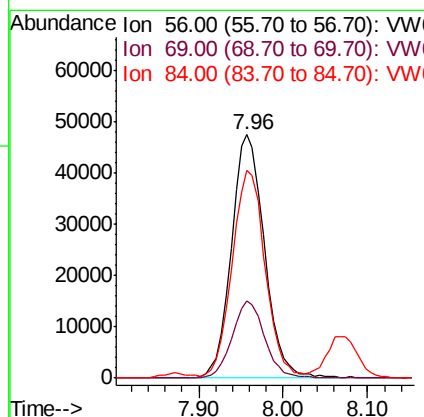
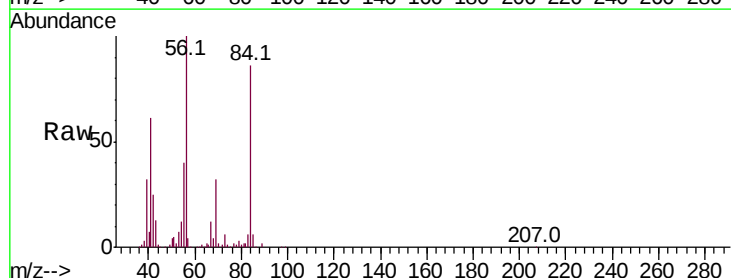
Tgt Ion: 56 Resp: 126036

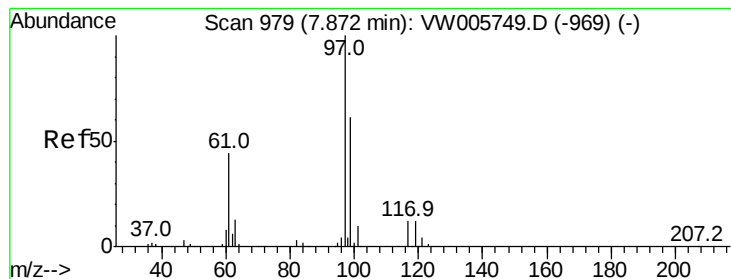
Ion Ratio Lower Upper

56 100

69 30.8 25.0 37.6

84 85.7 70.2 105.2





#31

1,1,1-Trichloroethane

Concen: 22.717 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampleId :

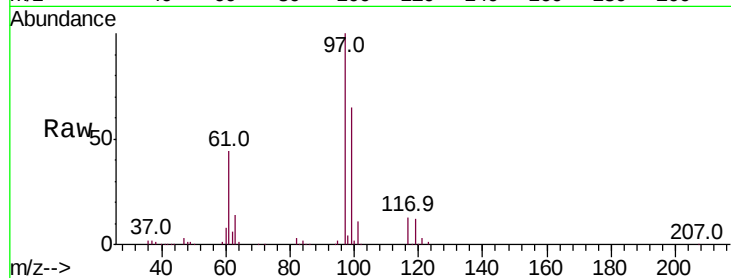
Tot Ion: 97 Resp: 135505

Ion Ratio Lower Upper

97 100

99 65.1 51.8 77.8

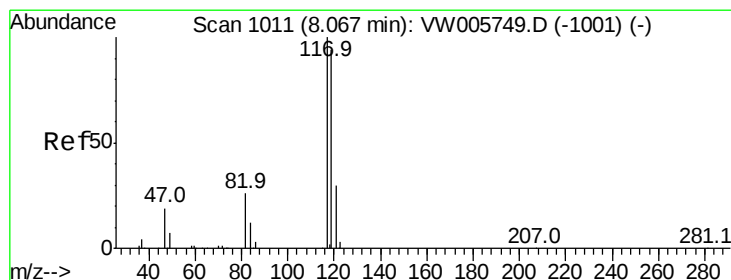
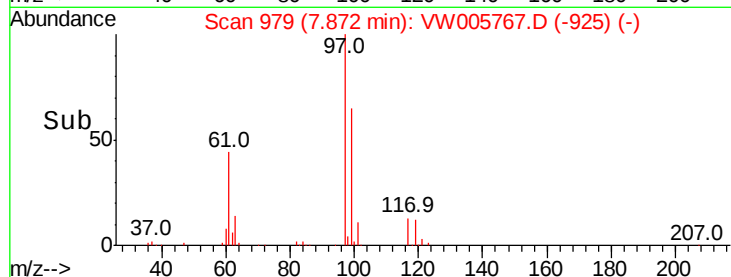
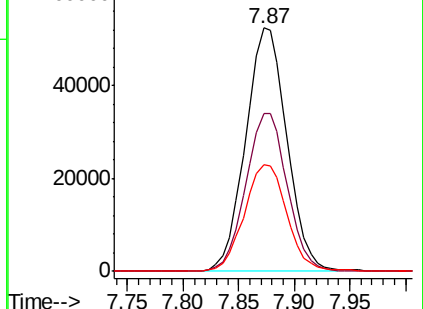
61 45.0 35.4 53.2



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 22.559 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW005767.D

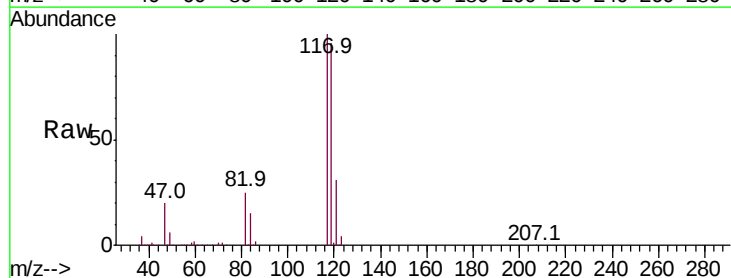
Acq: 02 Oct 2018 10:27

Tgt Ion: 117 Resp: 131034

Ion Ratio Lower Upper

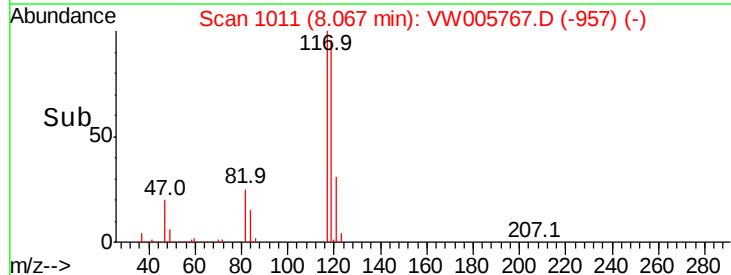
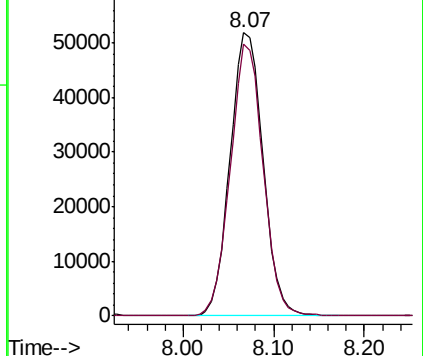
117 100

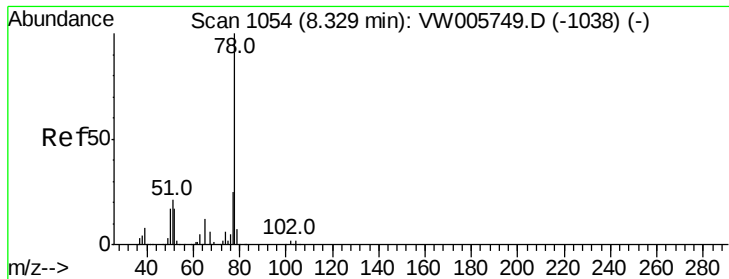
119 95.3 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 23.473 ug/L

RT: 8.33 min Scan# 1054

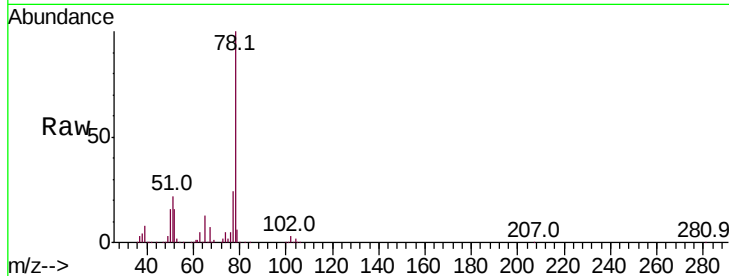
Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :
MSVOA_W
ClientSampled :

Tgt Ion: 78 Resp: 323059



Abundance Ion 78.00 (77.70 to 78.70): VW

150000

100000

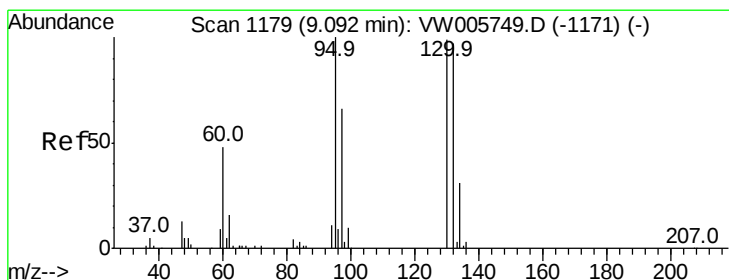
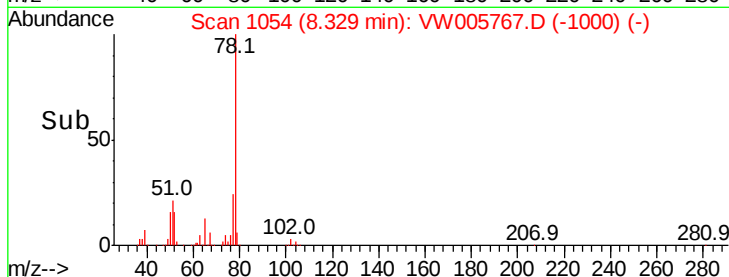
50000

0

8.33

8.20 8.30 8.40

Time-->



#35

Trichloroethene

Concen: 22.496 ug/L

RT: 9.09 min Scan# 1179

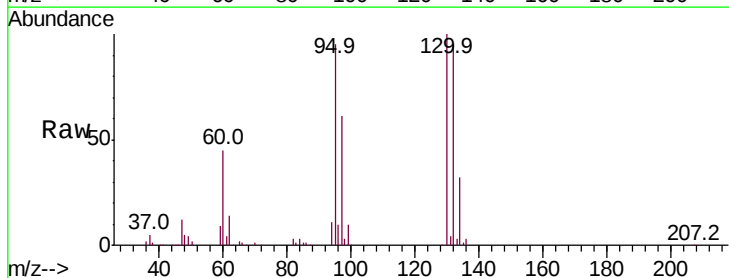
Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Tgt Ion: 95 Resp: 82829

Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.2	84.0
132	100.2	68.0	126.4
130	102.8	71.3	132.5



Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

60000

40000

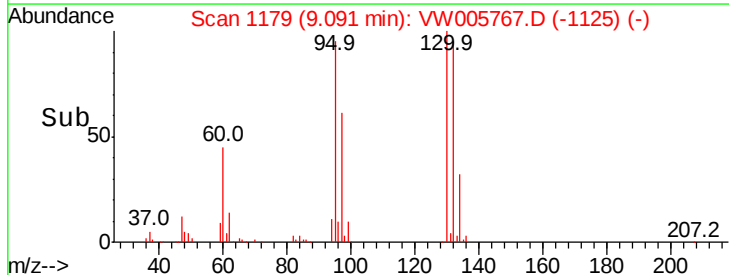
20000

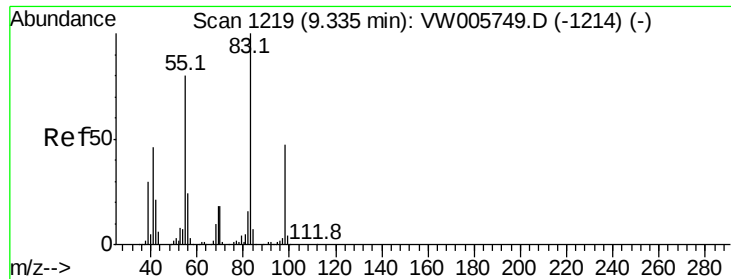
0

9.09

9.00 9.05 9.10 9.15 9.20

Time-->

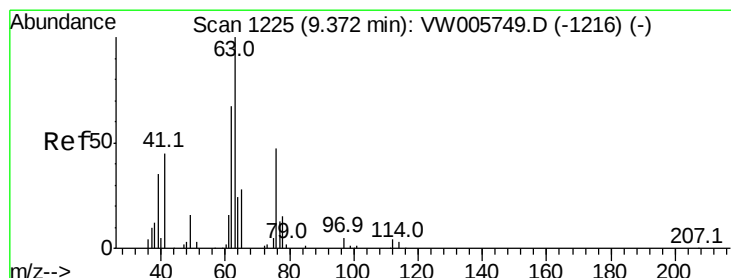
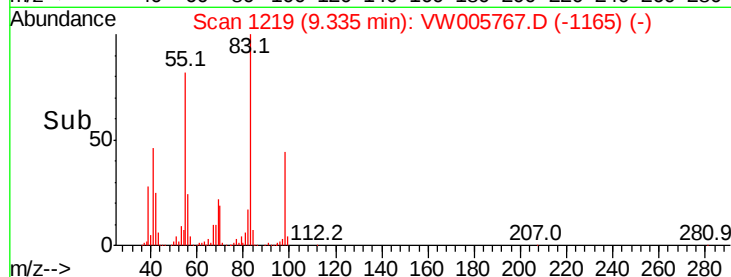
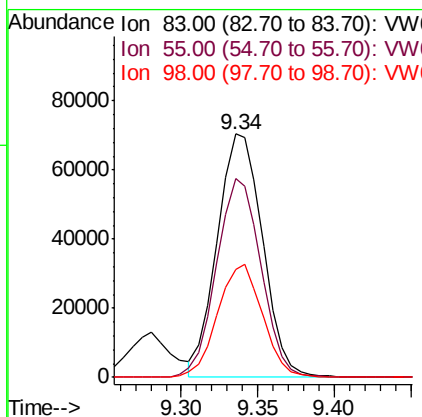
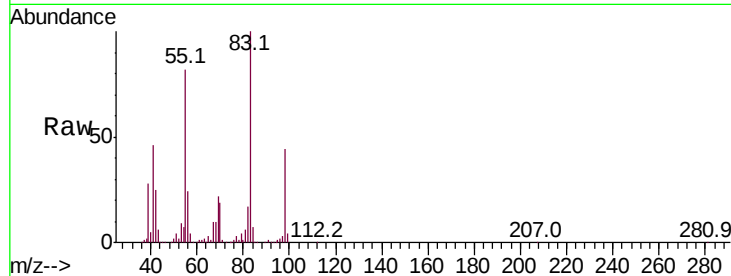




#36
Methvlcvclohexane
Concen: 22.644 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

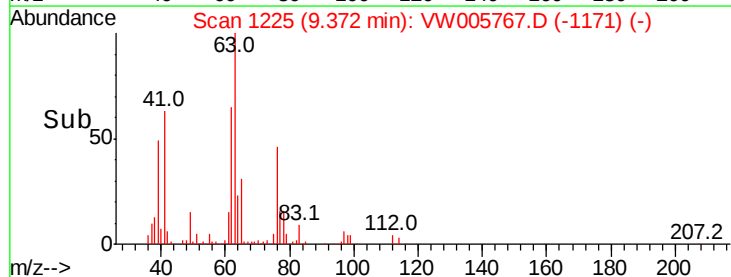
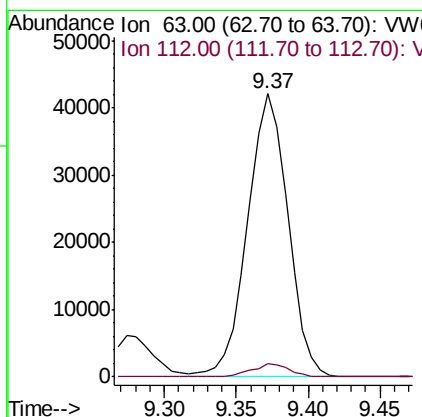
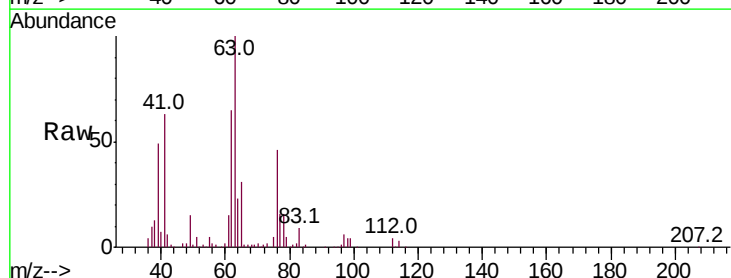
Instrument :
MSVOA_W
ClientSampleId :

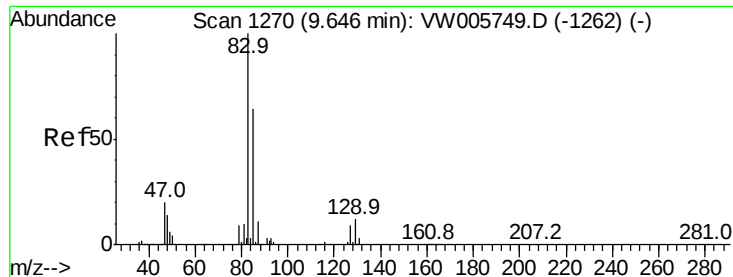
Tot Ion: 83 Resp: 144979
Ion Ratio Lower Upper
83 100
55 80.3 62.5 93.7
98 46.0 37.7 56.5



#40
1,2-Dichloropropane
Concen: 24.423 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Tgt Ion: 63 Resp: 81915
Ion Ratio Lower Upper
63 100
112 4.4 3.4 5.2





#41

Bromodichloromethane

Concen: 23.580 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :
MSVOA_W
ClientSampleId :

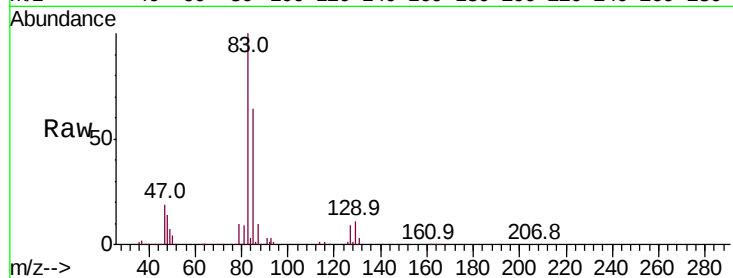
Tot Ion: 83 Resp: 111196

Ion Ratio Lower Upper

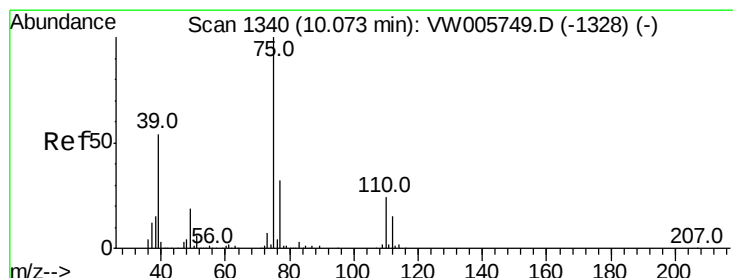
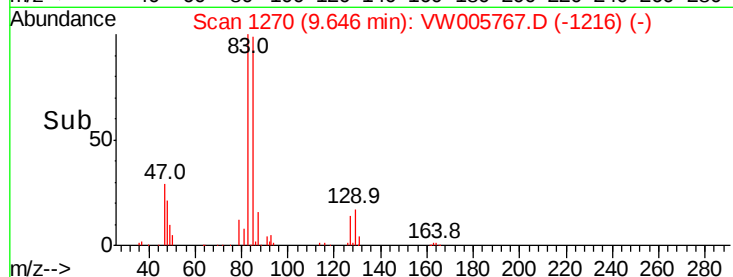
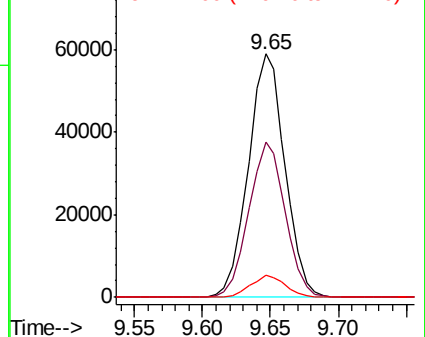
83 100

85 64.0 44.1 81.9

127 9.1 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 85.00 (84.70 to 85.70): VW
Ion 127.00 (126.70 to 127.70): V



#42

cis-1,3-Dichloropropene

Concen: 23.103 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW005767.D

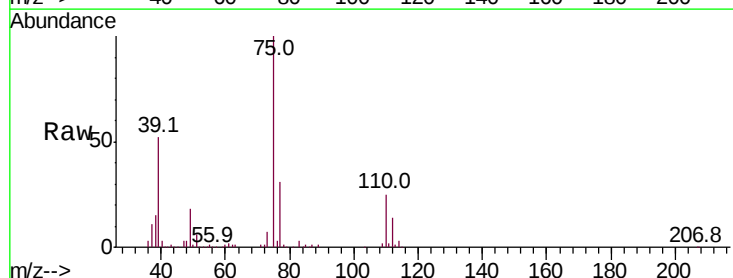
Acq: 02 Oct 2018 10:27

Tgt Ion: 75 Resp: 127966

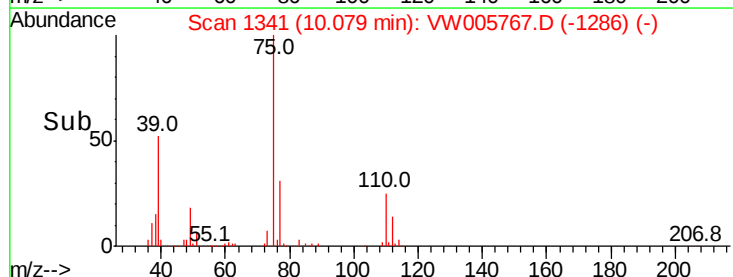
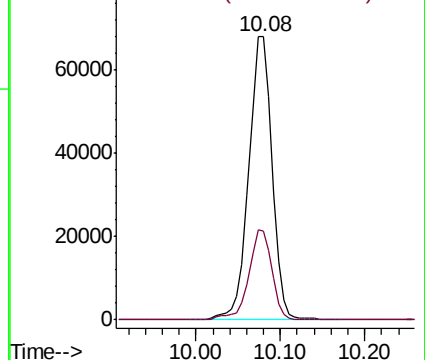
Ion Ratio Lower Upper

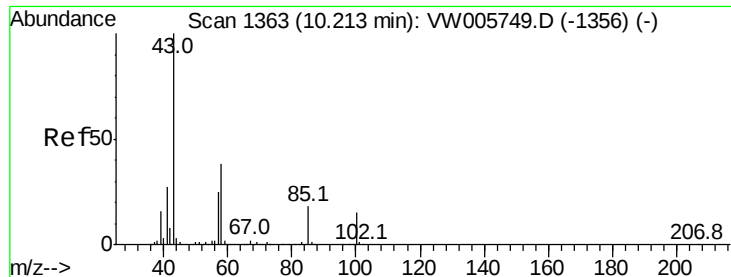
75 100

77 31.3 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VW
Ion 77.00 (76.70 to 77.70): VW





#43

4-Methyl-2-pentanone

Concen: 50.462 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampled :

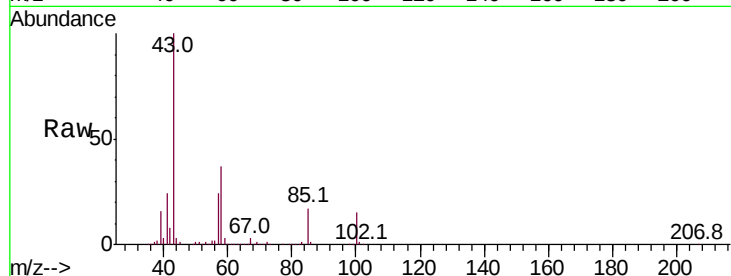
Tot Ion: 43 Resp: 138121

Ion Ratio Lower Upper

43 100

58 37.8 29.8 44.8

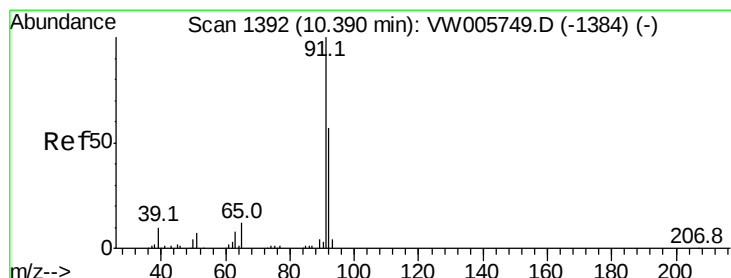
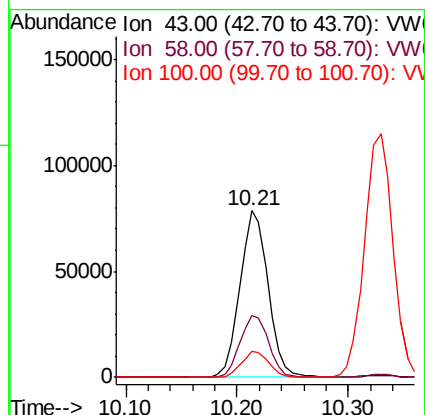
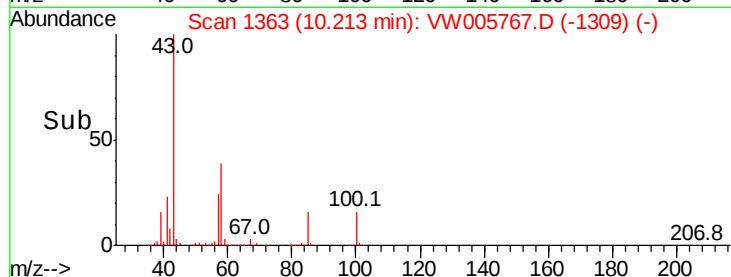
100 15.2 12.2 18.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW



#44

Toluene

Concen: 22.763 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW005767.D

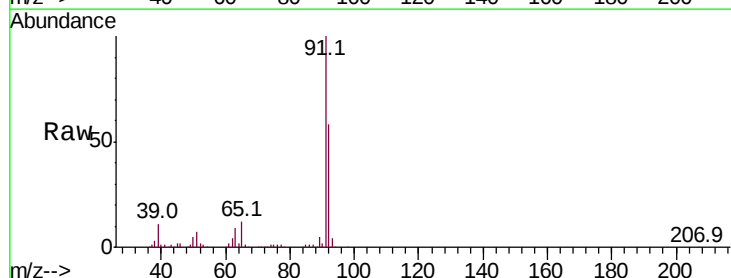
Acq: 02 Oct 2018 10:27

Tgt Ion: 91 Resp: 350095

Ion Ratio Lower Upper

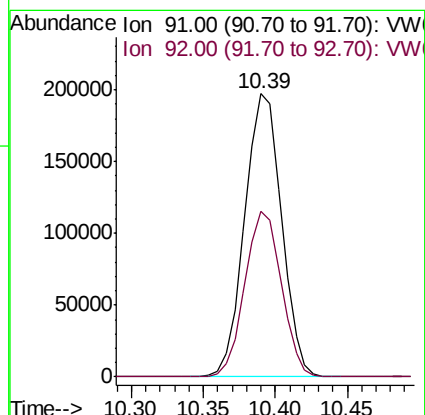
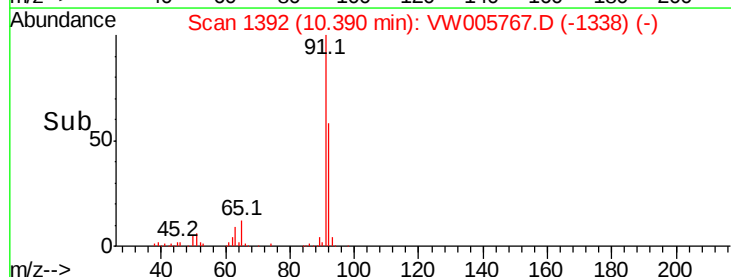
91 100

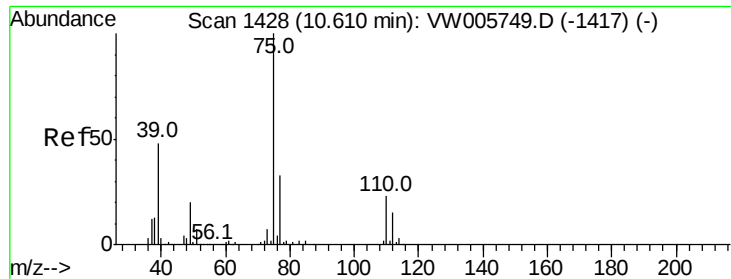
92 58.5 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW





#45

trans-1,3-Dichloropropene

Concen: 23.658 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

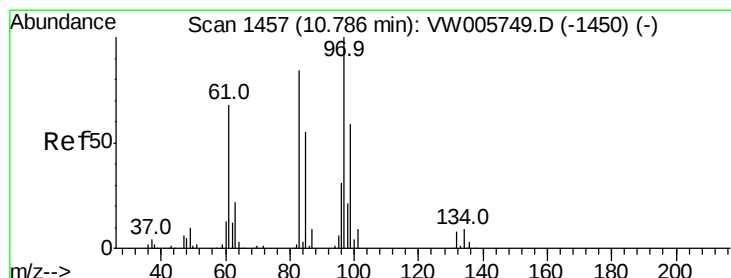
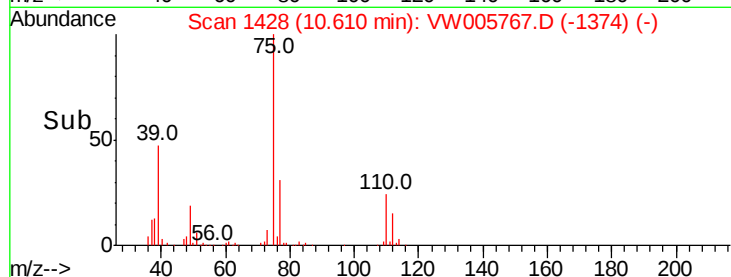
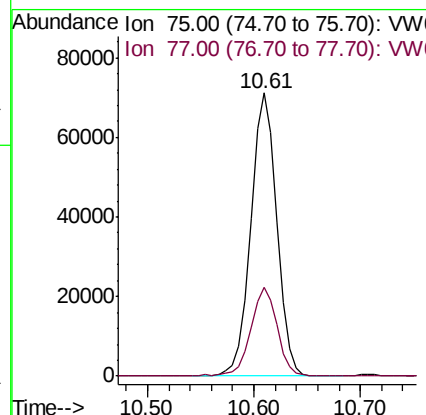
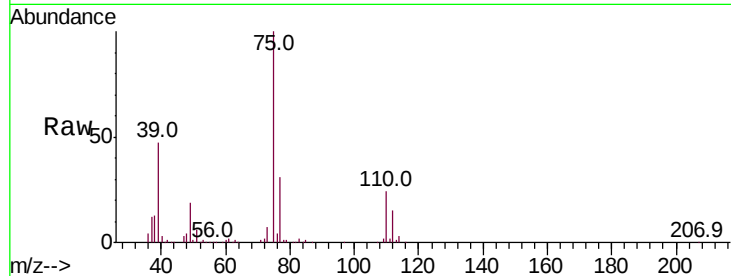
ClientSampleId :

Tot Ion: 75 Resp: 122017

Ion Ratio Lower Upper

75 100

77 31.3 22.1 41.1



#46

1,1,2-Trichloroethane

Concen: 23.814 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Tgt Ion: 97 Resp: 66651

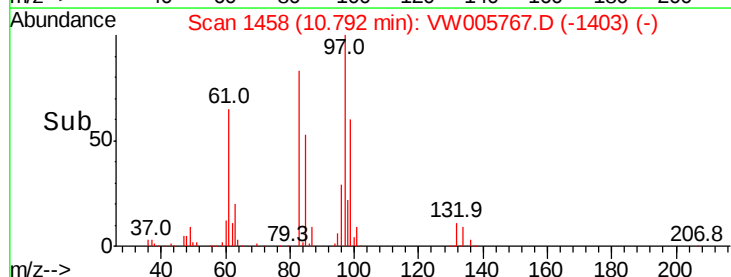
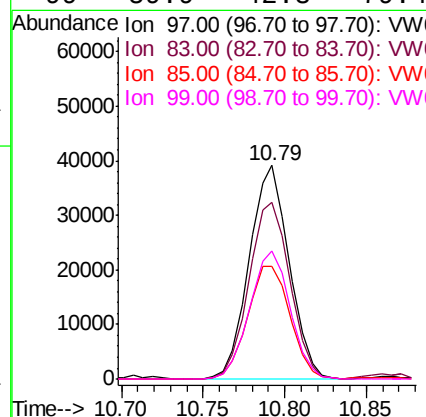
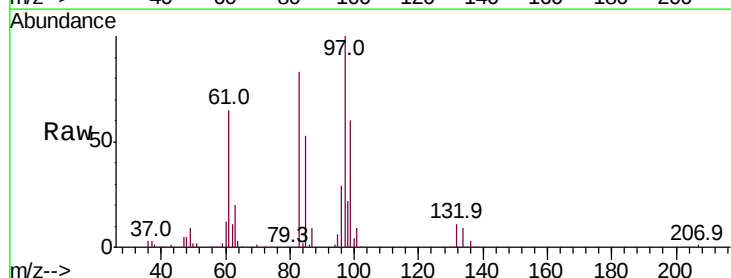
Ion Ratio Lower Upper

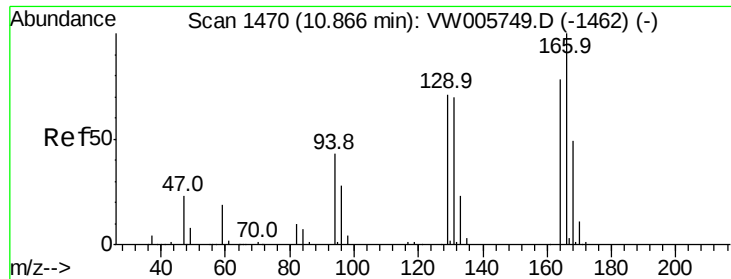
97 100

83 82.5 58.3 108.3

85 52.6 38.0 70.6

99 59.9 42.8 79.4

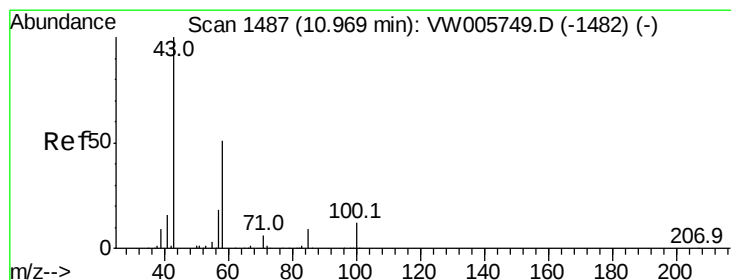
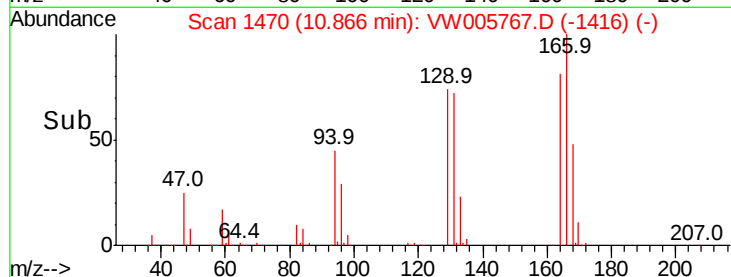
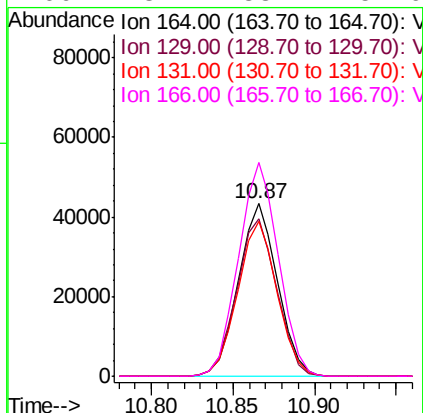
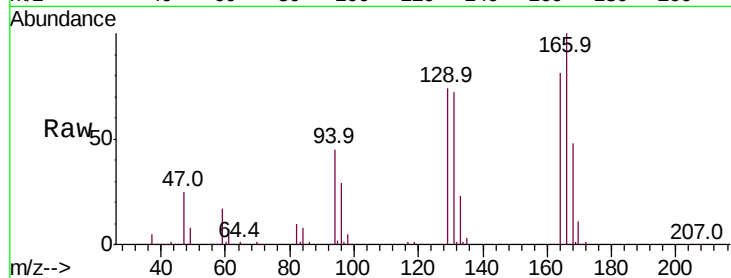




#47
Tetrachloroethene
Concen: 22.331 ug/L
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

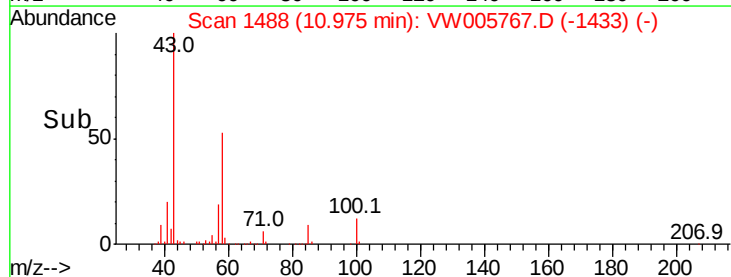
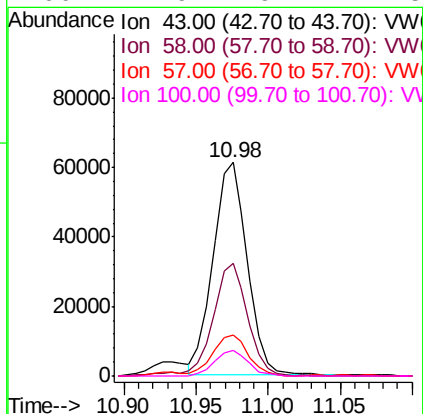
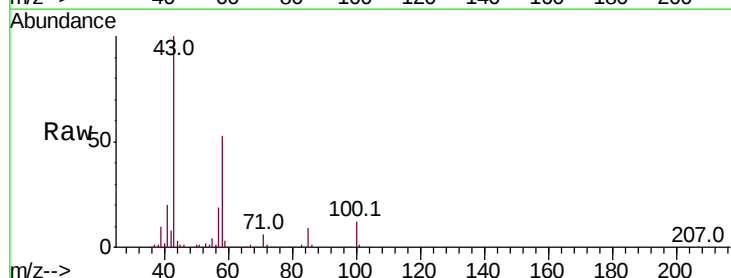
Instrument :
MSVOA_W
ClientSampleId :

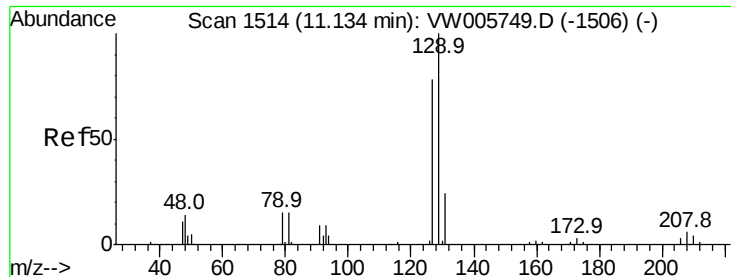
Tot Ion:164 Resp: 72439
Ion Ratio Lower Upper
164 100
129 91.6 63.8 118.4
131 89.3 61.5 114.3
166 123.7 83.2 154.6



#49
2-Hexanone
Concen: 52.914 ug/L
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Tgt Ion: 43 Resp: 101664
Ion Ratio Lower Upper
43 100
58 52.3 42.0 63.0
57 20.2 15.7 23.5
100 11.9 9.7 14.5





#50

Dibromochloromethane

Concen: 23.765 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

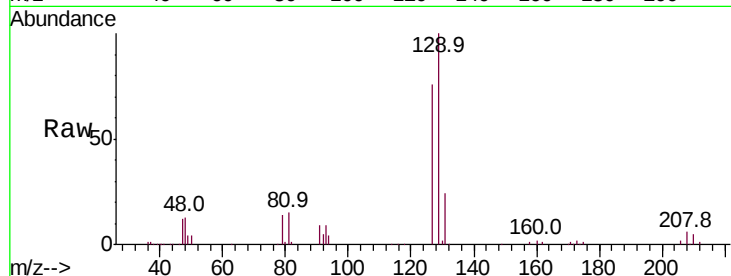
ClientSampleId :

Tot Ion:129 Resp: 83417

Ion Ratio Lower Upper

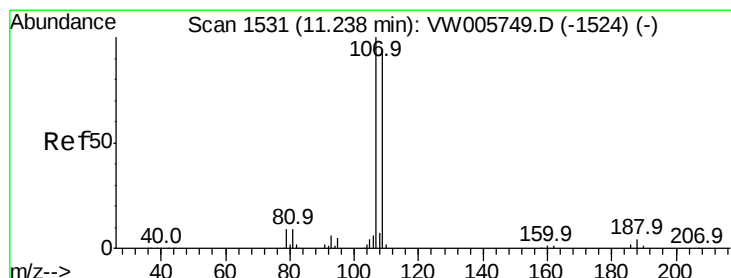
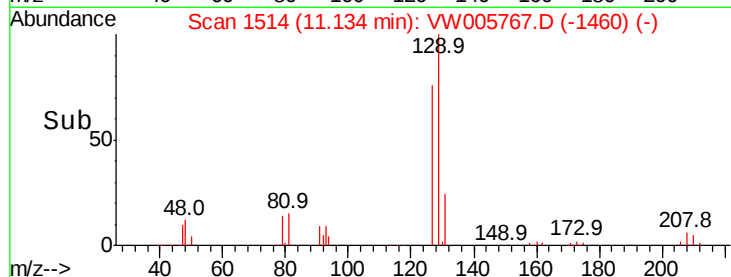
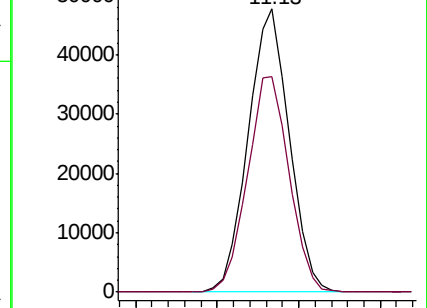
129 100

127 76.2 51.7 95.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 24.153 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

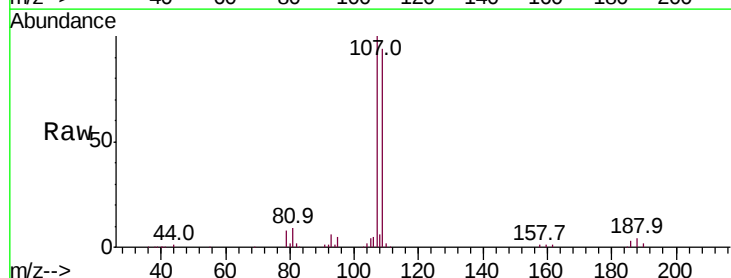
Tgt Ion:107 Resp: 65355

Ion Ratio Lower Upper

107 100

109 93.7 70.1 130.3

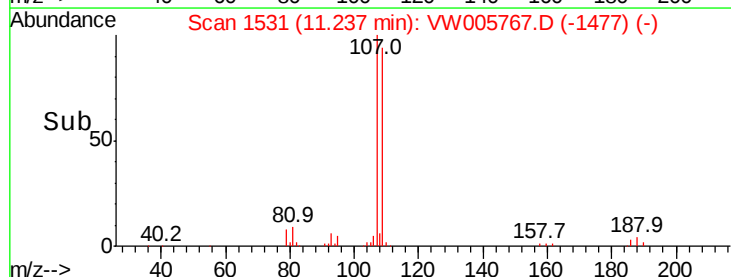
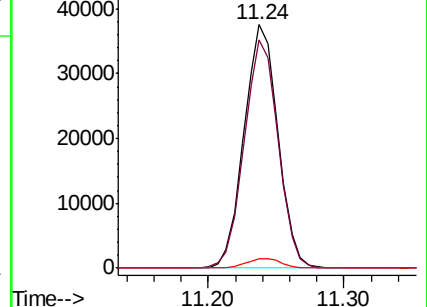
188 4.1 3.4 5.2

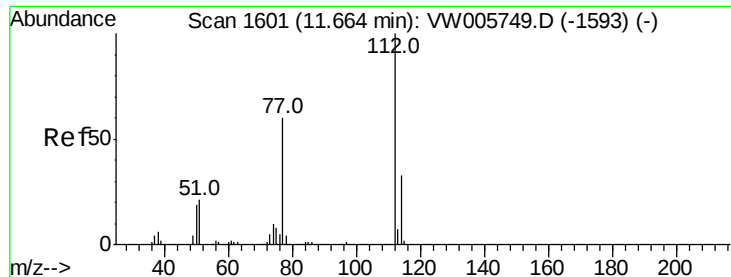


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 22.700 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampleId :

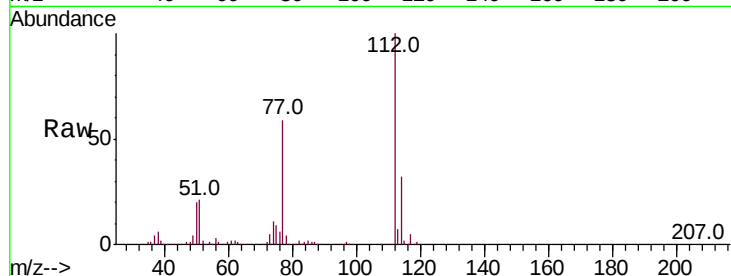
Tot Ion:112 Resp: 229674

Ion Ratio Lower Upper

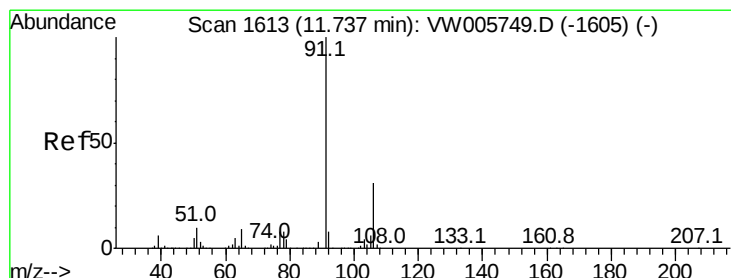
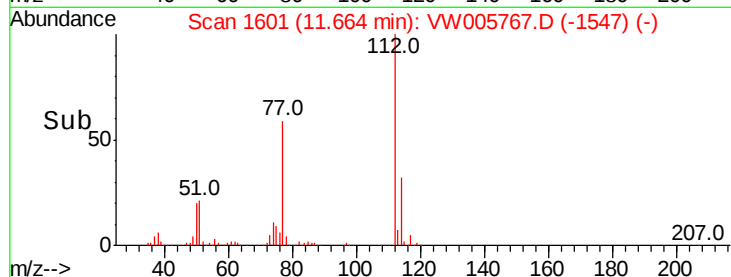
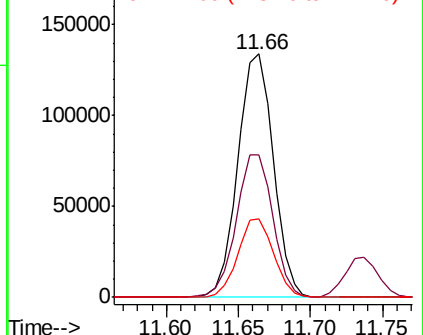
112 100

77 58.5 46.7 70.1

114 32.4 21.8 40.6



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



#53

Ethylbenzene

Concen: 22.840 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VW005767.D

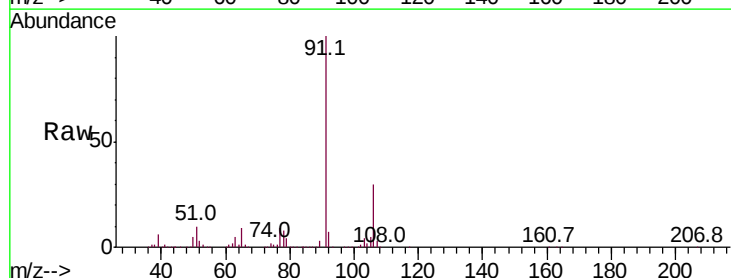
Acq: 02 Oct 2018 10:27

Tgt Ion: 91 Resp: 402204

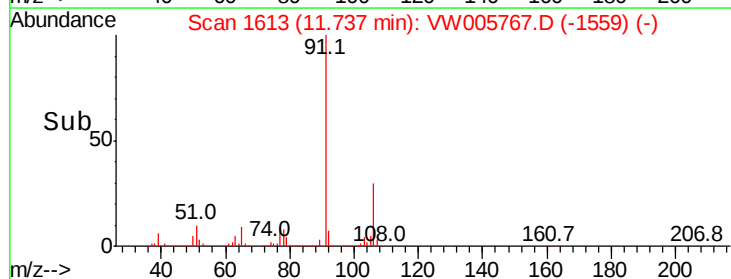
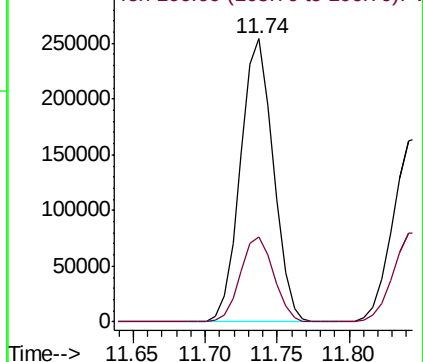
Ion Ratio Lower Upper

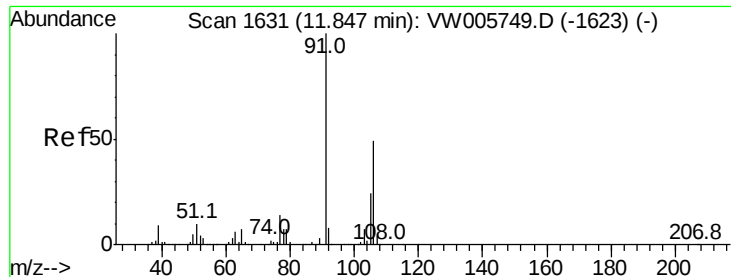
91 100

106 30.2 21.5 39.9



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





#54

m,p-Xylene

Concen: 23.046 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

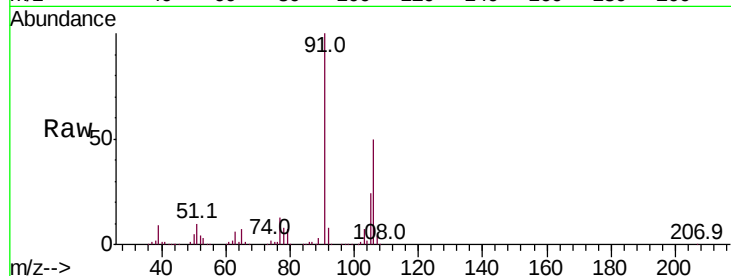
ClientSampled :

Tot Ion:106 Resp: 152897

Ion Ratio Lower Upper

106 100

91 202.0 147.7 274.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

300000

250000

200000

150000

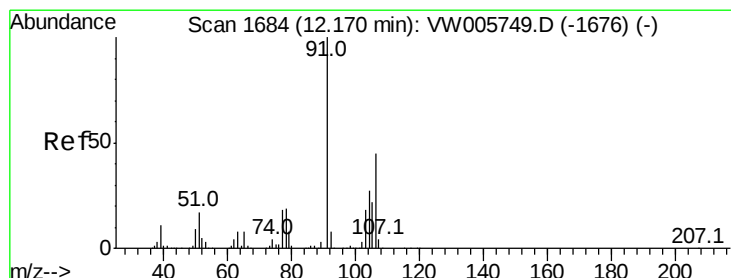
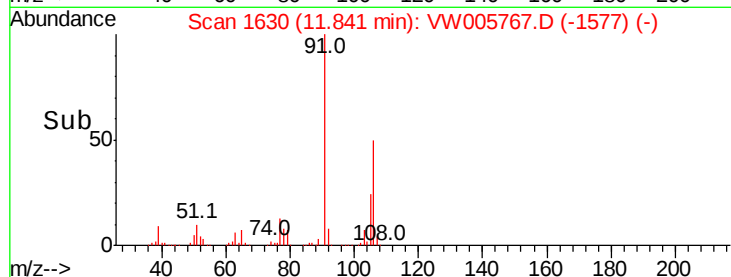
100000

50000

0

11.84

Time-->



#55

o-xylene

Concen: 23.094 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW005767.D

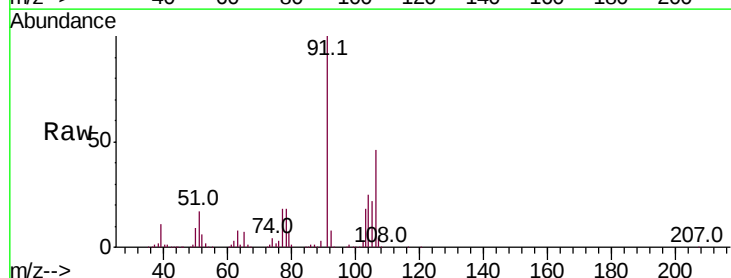
Acq: 02 Oct 2018 10:27

Tgt Ion:106 Resp: 144410

Ion Ratio Lower Upper

106 100

91 217.9 156.5 290.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

200000

150000

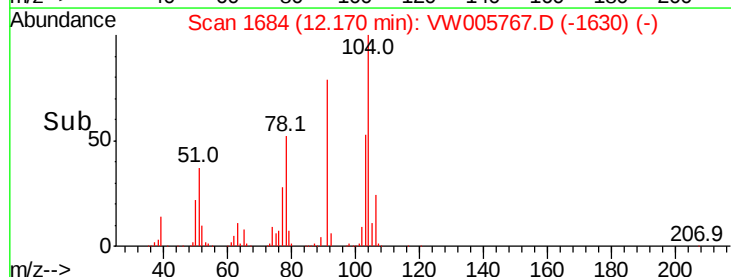
100000

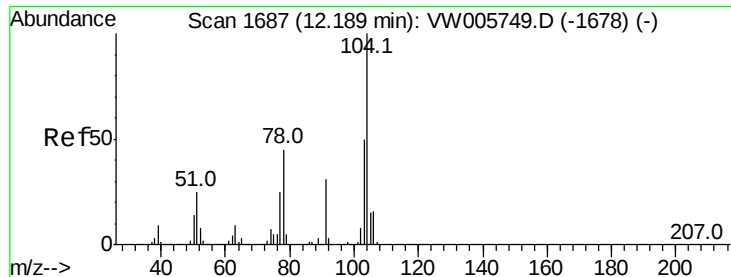
50000

0

12.17

Time-->





#56

Stvrene

Concen: 23.402 ug/L

RT: 12.19 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

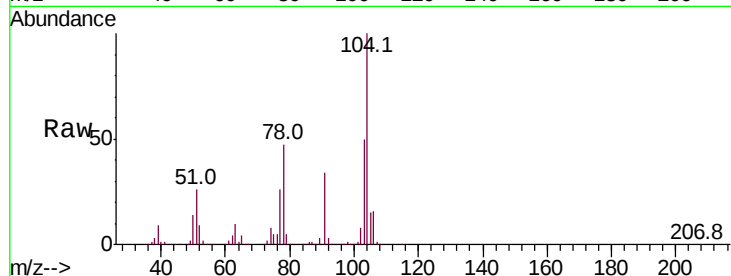
ClientSampled :

Tot Ion:104 Resp: 256808

Ion Ratio Lower Upper

104 100

78 47.3 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

12.19

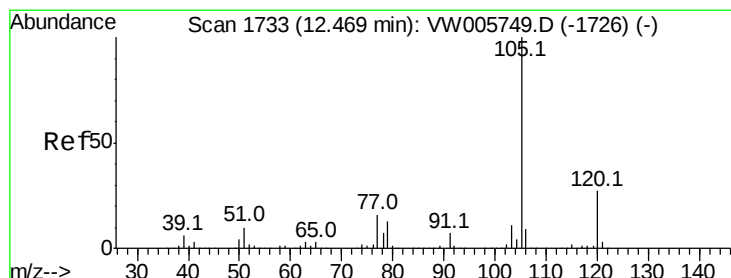
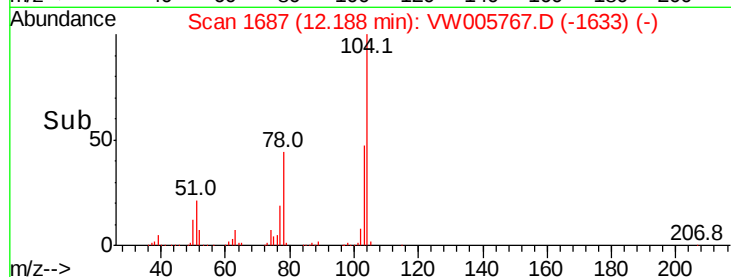
150000

100000

50000

0

Time--> 12.10 12.15 12.20 12.25



#57

Isopropylbenzene

Concen: 23.079 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

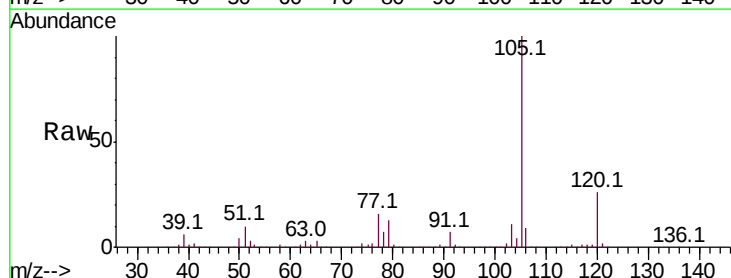
Tgt Ion:105 Resp: 412217

Ion Ratio Lower Upper

105 100

120 26.2 20.7 31.1

77 15.8 13.0 19.6



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): VW

12.47

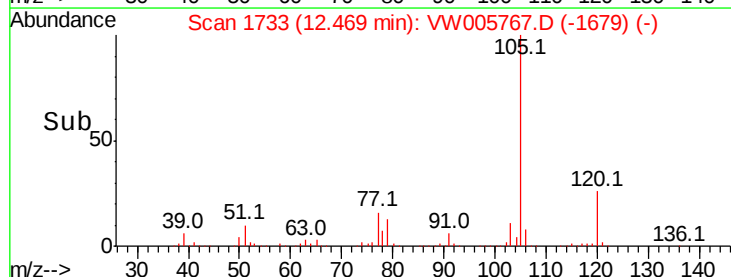
300000

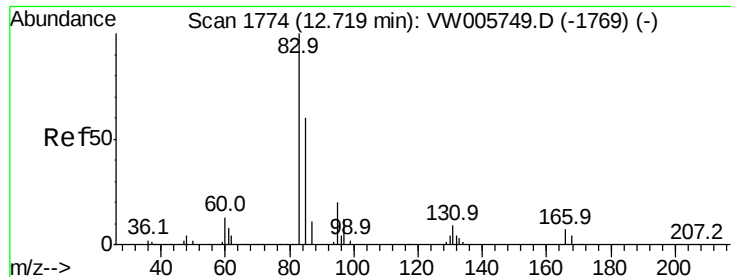
200000

100000

0

Time--> 12.40 12.45 12.50





#58

1,1,2,2-Tetrachloroethane

Concen: 25.726 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampleId :

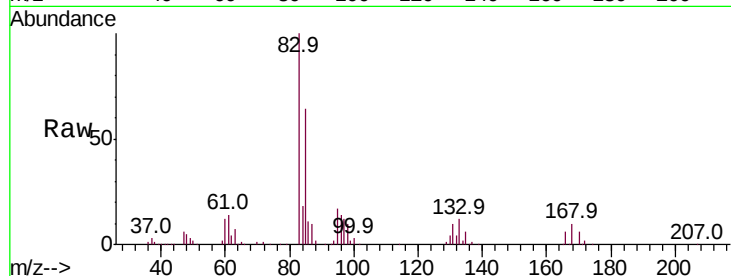
Tot Ion: 83 Resp: 91849

Ion Ratio Lower Upper

83 100

85 63.7 43.0 80.0

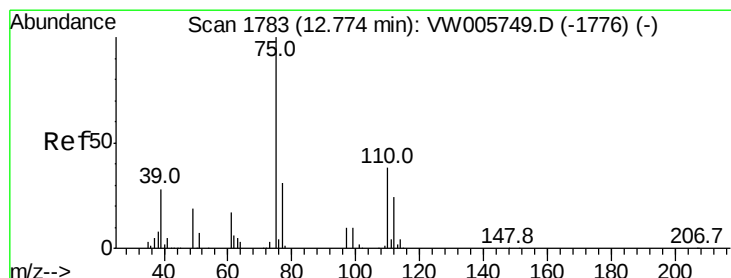
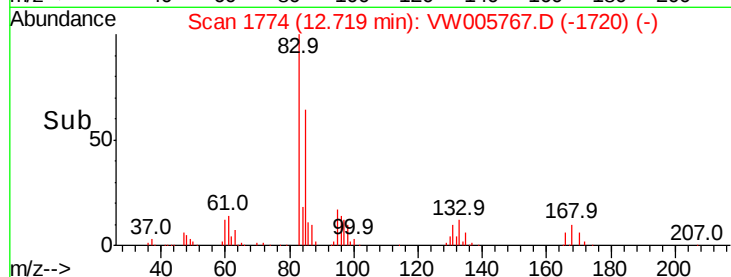
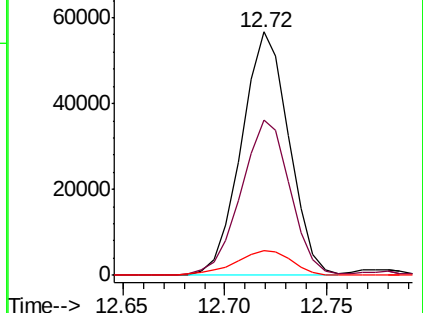
131 10.3 8.0 12.0



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V



#59

1,2,3-Trichloropropane

Concen: 25.513 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW005767.D

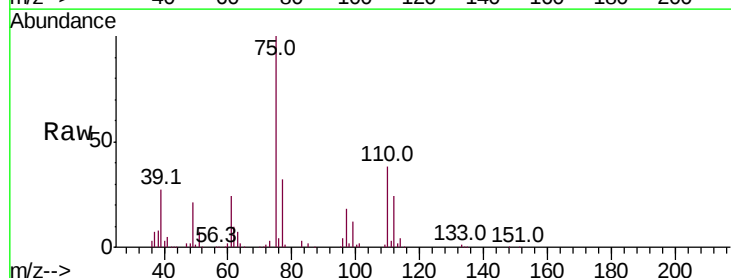
Acq: 02 Oct 2018 10:27

Tgt Ion: 75 Resp: 73942

Ion Ratio Lower Upper

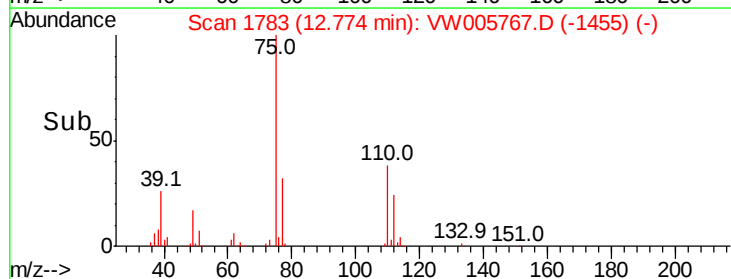
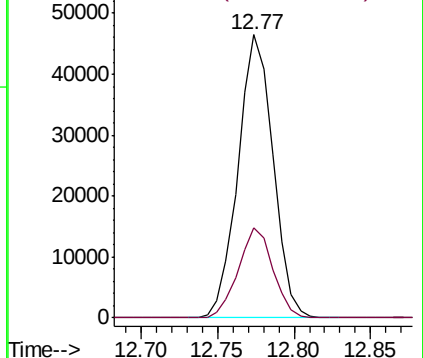
75 100

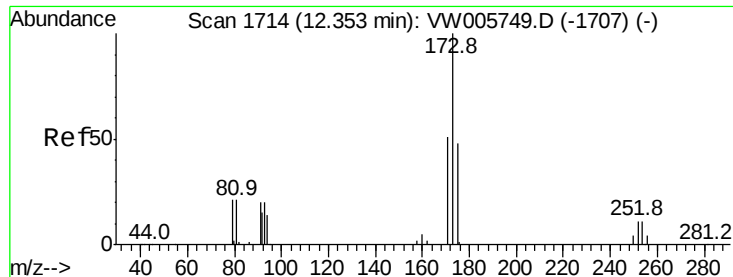
77 31.6 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

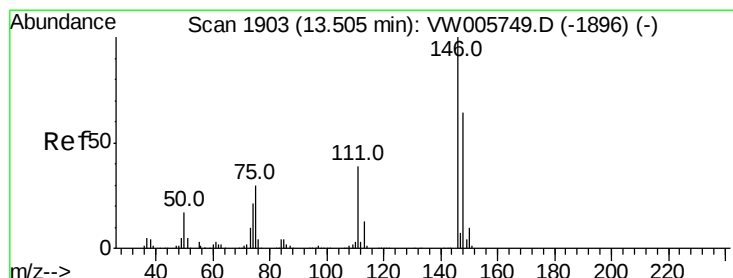
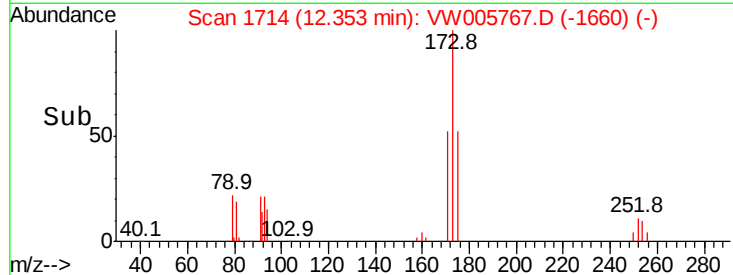
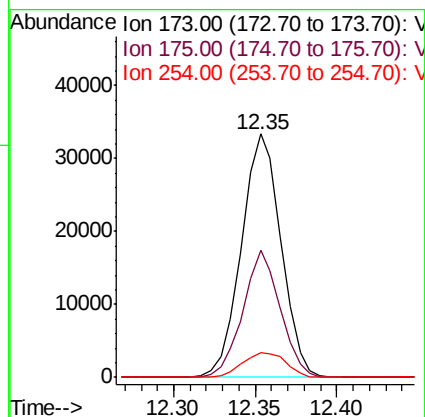
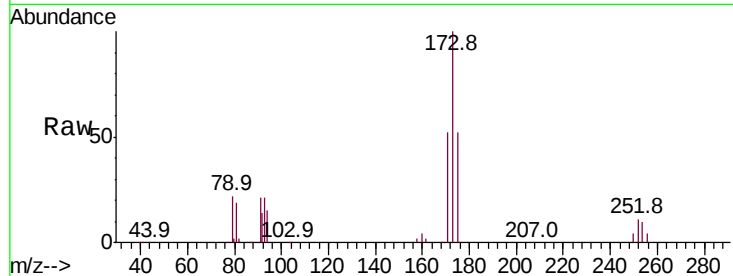




#62
Bromoform
Concen: 24.915 ug/L
RT: 12.35 min Scan# 1714
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

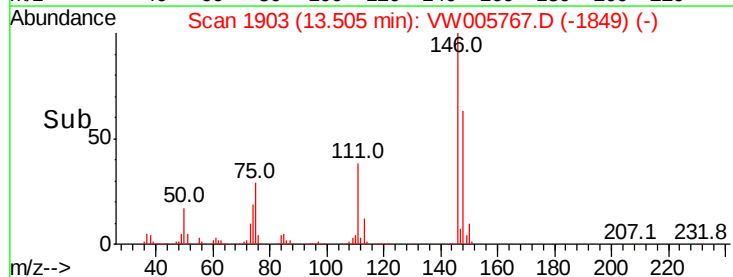
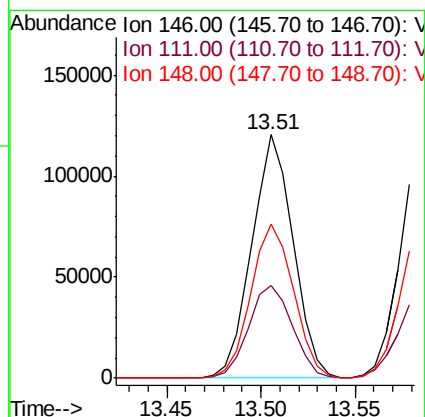
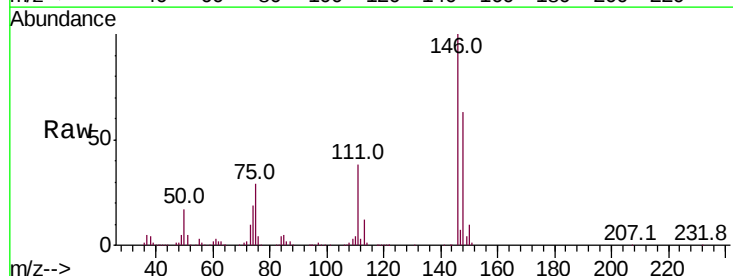
Instrument :
MSVOA_W
ClientSampleId :

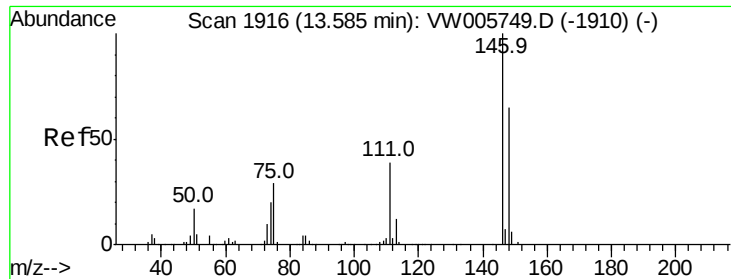
Tot Ion:173 Resp: 56429
Ion Ratio Lower Upper
173 100
175 49.2 40.0 60.0
254 11.1 8.6 13.0



#63
1,3-Dichlorobenzene
Concen: 22.720 ug/L
RT: 13.51 min Scan# 1903
Delta R.T. -0.00 min
Lab File: VW005767.D
Acq: 02 Oct 2018 10:27

Tgt Ion:146 Resp: 183815
Ion Ratio Lower Upper
146 100
111 37.9 27.2 50.6
148 63.5 46.2 85.8

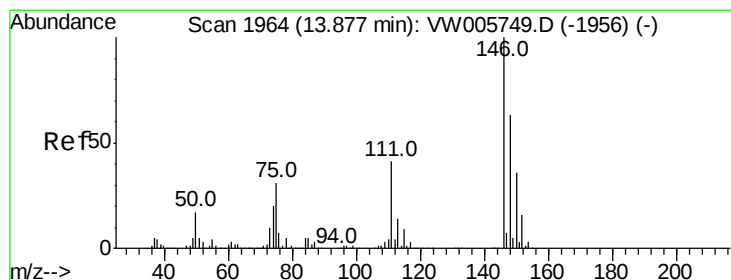
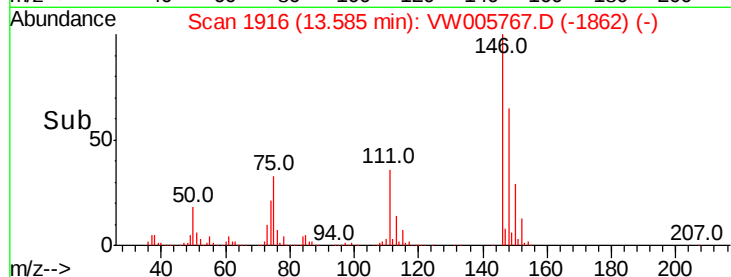
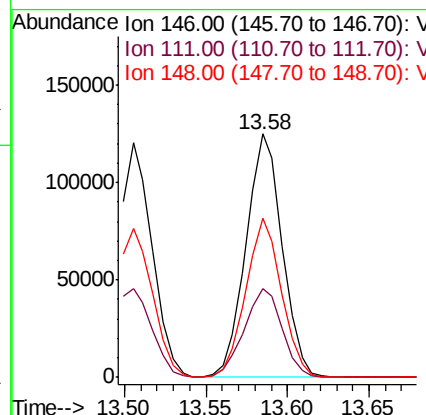
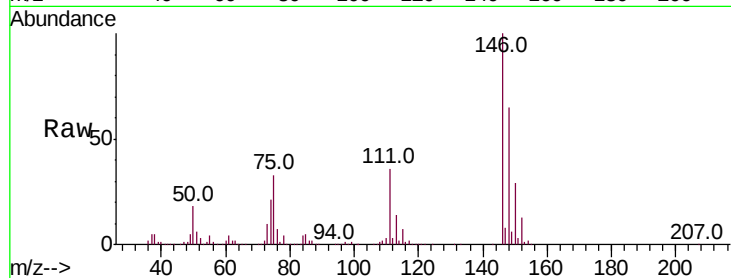




#64
 1,4-Dichlorobenzene
 Concen: 22.842 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW005767.D
 Acq: 02 Oct 2018 10:27

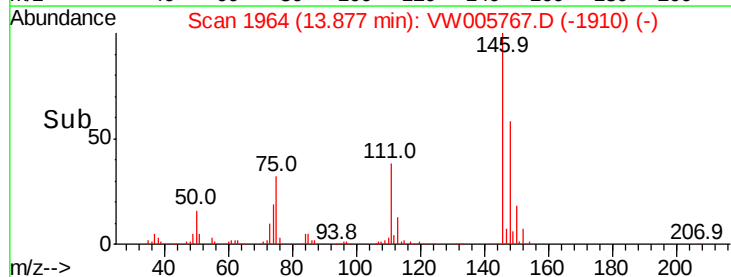
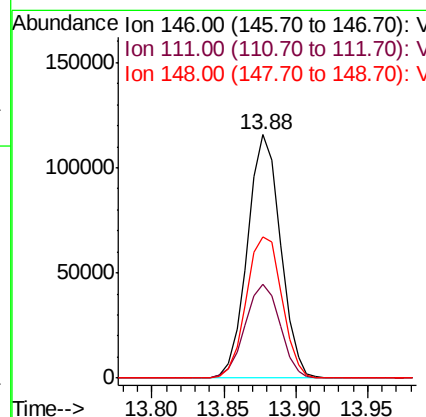
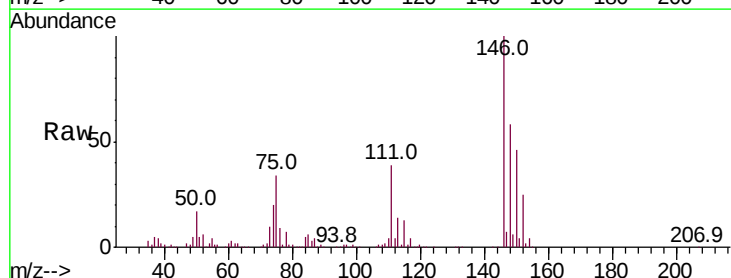
Instrument :
 MSVOA_W
 ClientSampleId :

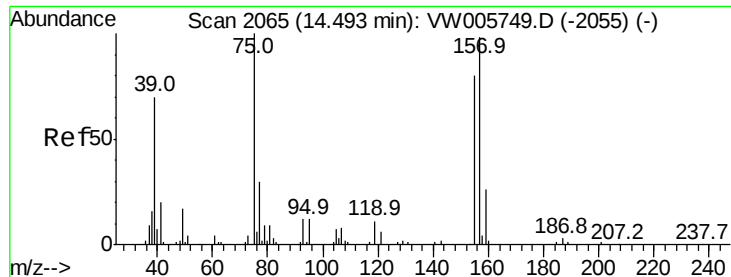
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	28.4	52.8
148	65.4	46.3	86.1



#65
 1,2-Dichlorobenzene
 Concen: 23.604 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW005767.D
 Acq: 02 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	34.6	51.8
148	58.3	51.5	77.3

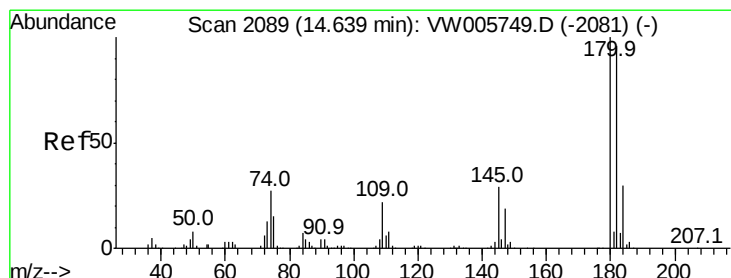
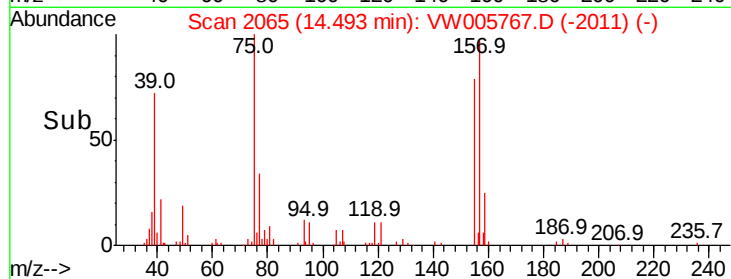
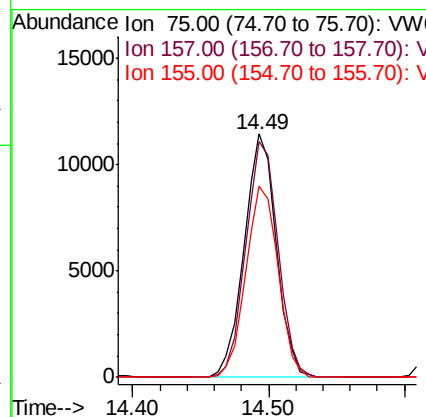
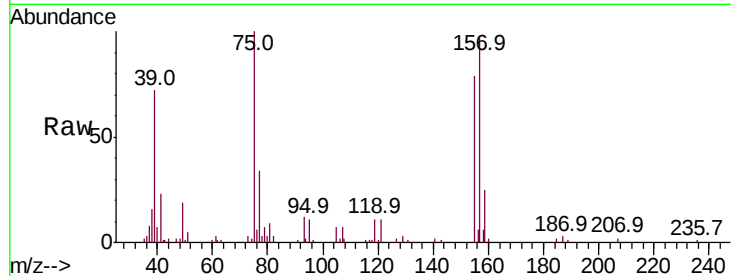




#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.398 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. -0.00 min
 Lab File: VW005767.D
 Acq: 02 Oct 2018 10:27

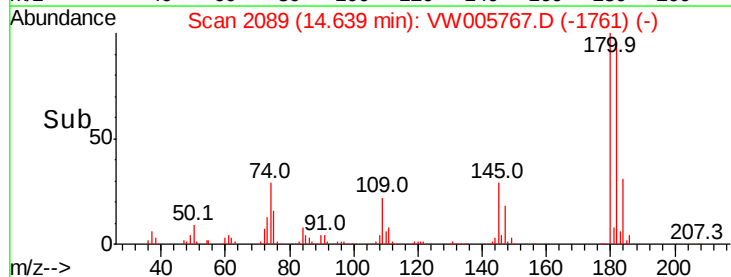
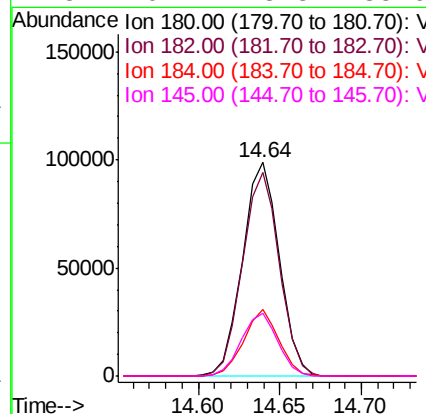
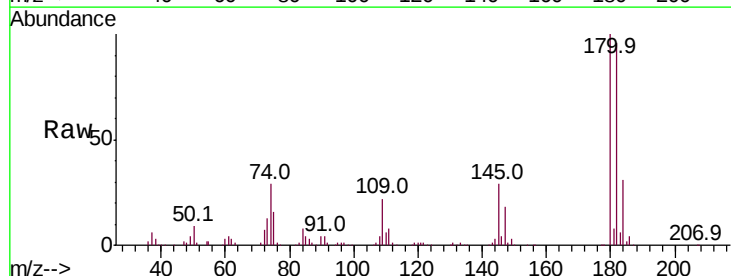
Instrument :
 MSVOA_W
 ClientSampled :

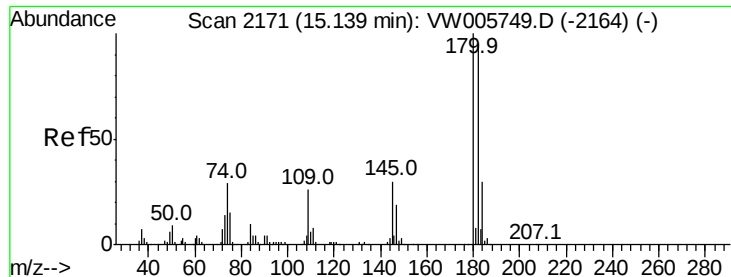
Tot Ion: 75 Resp: 18799
 Ion Ratio Lower Upper
 75 100
 157 97.2 76.9 115.3
 155 78.7 64.2 96.2



#67
 1,3,5-Trichlorobenzene
 Concen: 23.364 ug/L
 RT: 14.64 min Scan# 2089
 Delta R.T. -0.00 min
 Lab File: VW005767.D
 Acq: 02 Oct 2018 10:27

Tgt Ion: 180 Resp: 155134
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.7 116.5
 184 29.9 24.6 37.0
 145 29.1 23.8 35.6





#68

1,2,4-trichlorobenzene

Concen: 23.701 ug/L

RT: 15.15 min Scan# 2172

Delta R.T. 0.01 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

Instrument :

MSVOA_W

ClientSampleId :

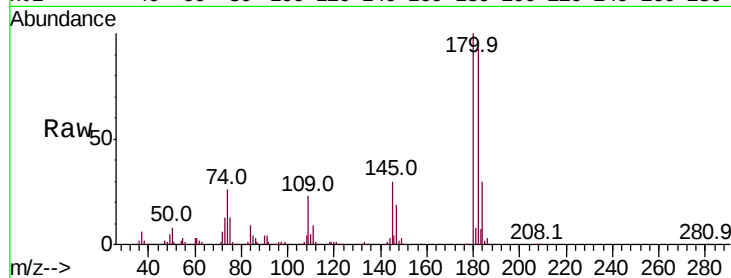
Tot Ion:180 Resp: 129275

Ion Ratio Lower Upper

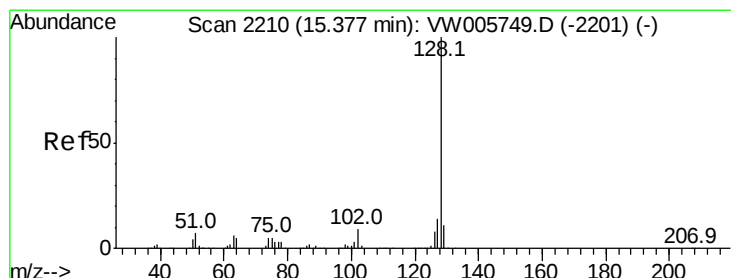
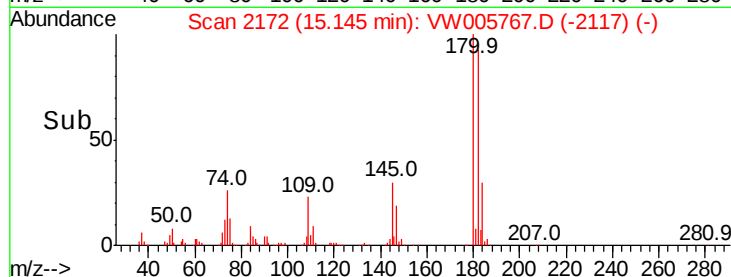
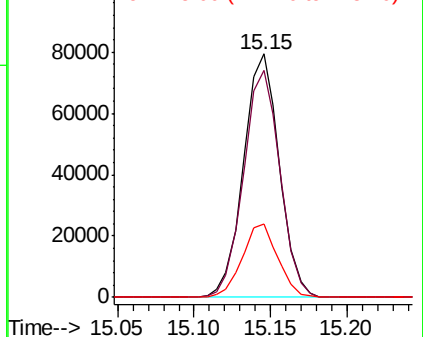
180 100

182 94.6 75.8 113.6

145 29.9 23.8 35.6



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



#69

Naphthalene

Concen: 25.307 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005767.D

Acq: 02 Oct 2018 10:27

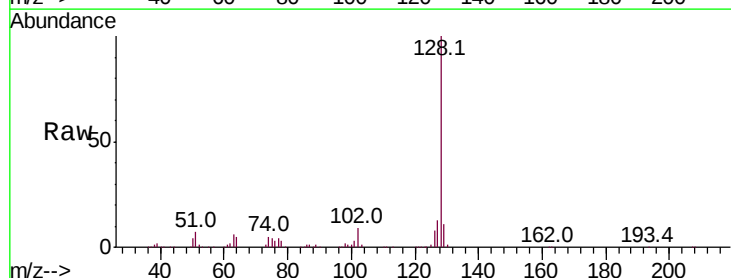
Tgt Ion:128 Resp: 276589

Ion Ratio Lower Upper

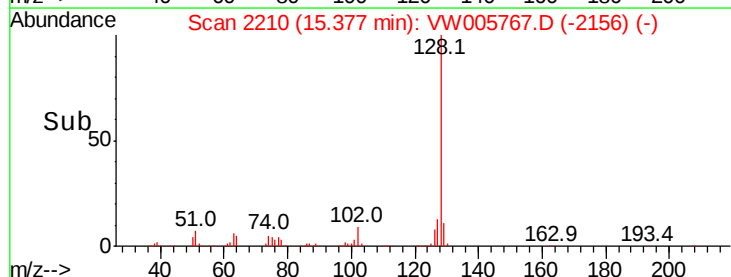
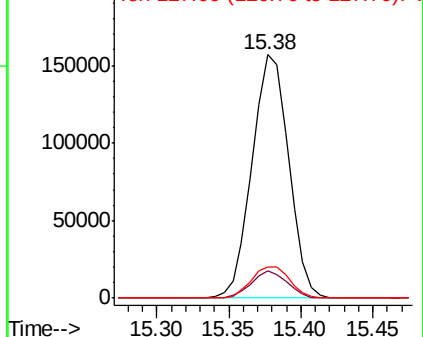
128 100

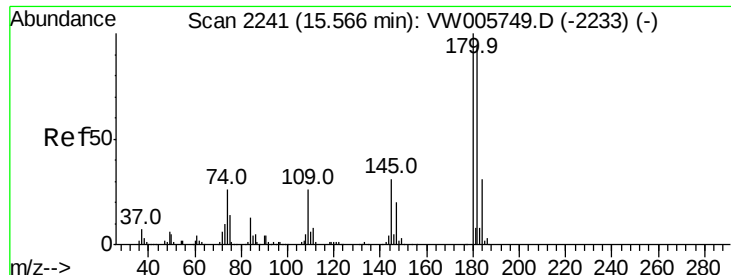
129 10.9 8.8 13.2

127 13.7 11.0 16.4



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

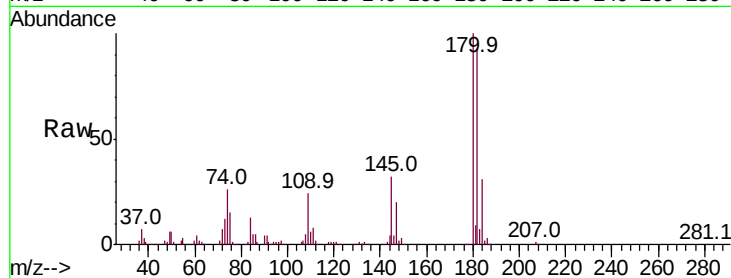




#70
 1,2,3-Trichlorobenzene
 Concen: 24.654 ug/L
 RT: 15.57 min Scan# 2241
 Delta R.T. -0.00 min
 Lab File: VW005767.D
 Acq: 02 Oct 2018 10:27

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.8	115.2
145	31.5	25.5	38.3



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

