

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091719\
 Data File : VV012864.D
 Acq On : 17 Sep 2019 15:23
 Operator : SY/MD
 Sample : VSTD0.534
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 17 17:09:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 17 17:07:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	379339	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	370381	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	159397	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	19721	0.69	ug/L	0.00
7) Chloroethane-d5	1.58	69	15493	0.69	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	30055	0.65	ug/L	0.00
20) 2-Butanone-d5	4.01	46	16796	3.65	ug/L	0.03
24) Chloroform-d	4.40	84	31265	0.68	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	14387	0.67	ug/L	0.00
32) Benzene-d6	5.09	84	59541	0.66	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	18358	0.67	ug/L	0.00
41) Toluene-d8	7.36	98	48392	0.60	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	6203	0.68	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	21821	7.24	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	15148	0.91	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	18241	0.74	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	13759	0.503 ug/L	91
3) Chloromethane	1.25	50	15629	0.566 ug/L	93
5) Vinyl chloride	1.32	62	17665	0.571 ug/L	91
6) Bromomethane	1.53	94	8184	0.518 ug/L	97
8) Chloroethane	1.60	64	9351	0.561 ug/L	93
9) Trichlorofluoromethane	1.77	101	21581	0.570 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	12872	0.574 ug/L	98
12) 1,1-Dichloroethene	2.14	96	11915	0.578 ug/L	92
13) Acetone	2.24	43	25947	8.676 ug/L	100
14) Carbon disulfide	2.32	76	24446	0.558 ug/L	98
15) Methyl Acetate	2.47	43	5787	0.649 ug/L #	71
16) Methylene chloride	2.53	84	16845	0.685 ug/L	96
17) Methyl tert-butyl Ether	2.81	73	33218	0.606 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	13622	0.607 ug/L	93
19) 1,1-Dichloroethane	3.23	63	26603	0.572 ug/L	98
21) 2-Butanone	4.08	43	31546	5.692 ug/L #	77
22) cis-1,2-Dichloroethene	3.96	96	13476	0.538 ug/L	96
23) Bromochloromethane	4.30	128	6398	0.590 ug/L	92
25) Chloroform	4.43	83	33430	0.642 ug/L	99
27) 1,2-Dichloroethane	5.18	62	15665	0.577 ug/L	96
29) 1,1,1-Trichloroethane	4.65	97	21897	0.576 ug/L	98
30) Cyclohexane	4.72	56	15686	0.490 ug/L	94
31) Carbon tetrachloride	4.87	117	18591	0.578 ug/L	98
33) Benzene	5.14	78	49912	0.533 ug/L	100
34) Trichloroethene	5.96	95	13590	0.518 ug/L	92
35) Methylcyclohexane	6.17	83	16666	0.509 ug/L	97
37) 1,2-Dichloropropane	6.22	63	13711	0.541 ug/L	99
38) Bromodichloromethane	6.56	83	19697	0.602 ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	18113	0.572 ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	82242	5.654 ug/L	99

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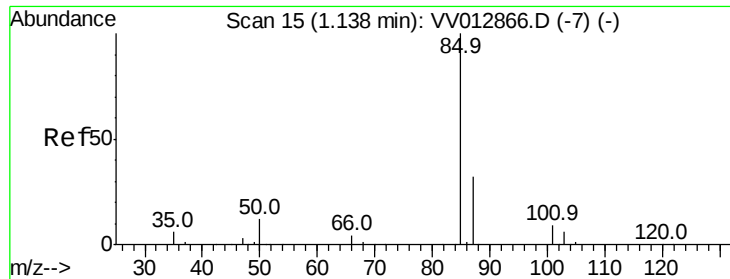
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 17 17:09:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091719WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.43	91	49142	0.513	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	14095	0.559	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	11350	0.625	ug/L	98
47) Tetrachloroethene	8.02	164	11235	0.575	ug/L	95
48) 2-Hexanone	8.19	43	57119	5.197	ug/L	99
49) Dibromochloromethane	8.29	129	12243	0.592	ug/L	95
50) 1,2-Dibromoethane	8.40	107	8575	0.566	ug/L #	89
51) Chlorobenzene	8.92	112	37115	0.562	ug/L	97
52) Ethylbenzene	9.05	91	51592	0.505	ug/L	99
53) m,p-xylene	9.18	106	18059	0.476	ug/L	95
54) o-xylene	9.59	106	17032	0.461	ug/L	92
55) Styrene	9.60	104	27911	0.445	ug/L	98
56) Isopropylbenzene	9.97	105	45133	0.455	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.28	83	13794	0.756	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	9680	0.633	ug/L	100
61) Bromoform	9.77	173	6313	0.622	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	25580	0.561	ug/L	95
63) 1,4-Dichlorobenzene	11.32	146	28334	0.598	ug/L	95
65) 1,2-Dichlorobenzene	11.69	146	26662	0.600	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	1997	0.864	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	20532	0.581	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	16016	0.598	ug/L	97
69) Naphthalene	13.55	128	21219	0.546	ug/L	97
70) 1,2,3-Trichlorobenzene	13.79	180	15645	0.599	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 0.503 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

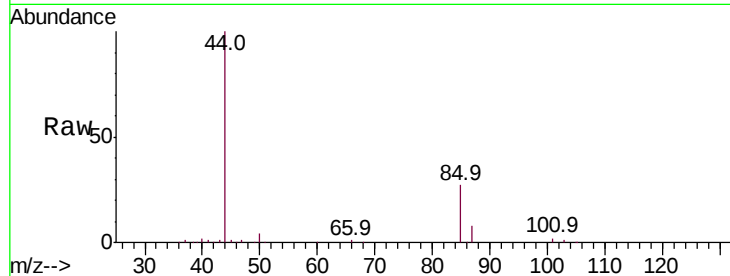
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 13759

Ion Ratio Lower Upper

85 100

87 37.0 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV012866.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012866.D (-7) (-)

1.14

15000

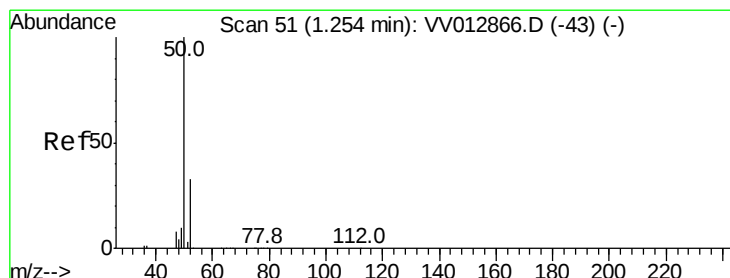
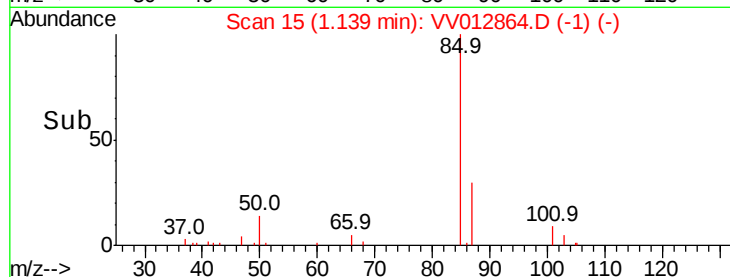
10000

5000

0

Time-->

1.10 1.12 1.14 1.16



#3

Chloromethane

Concen: 0.566 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012864.D

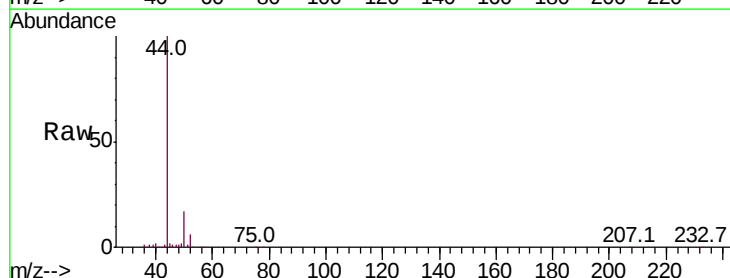
Acq: 17 Sep 2019 15:23

Tgt Ion: 50 Resp: 15629

Ion Ratio Lower Upper

50 100

52 36.4 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VV012866.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV012866.D (-43) (-)

1.25

10000

8000

6000

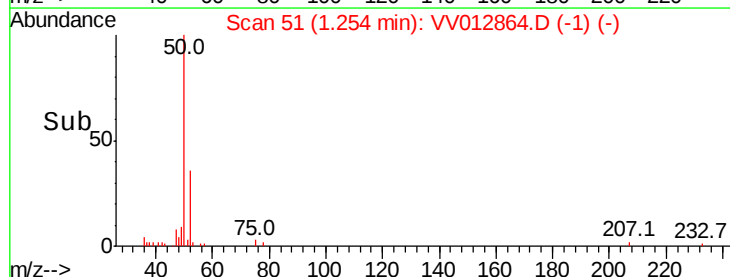
4000

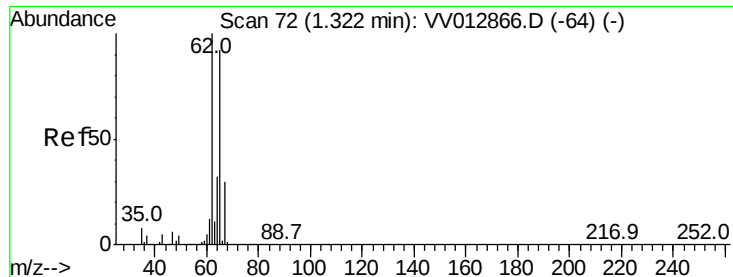
2000

0

Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 0.571 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

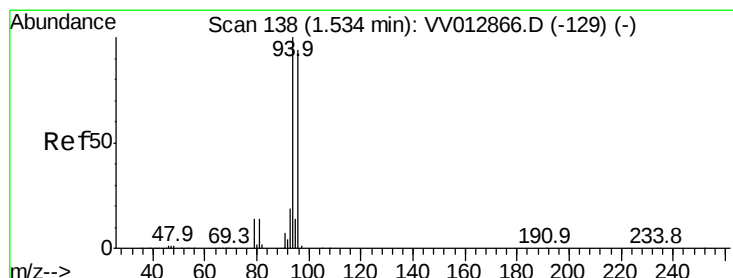
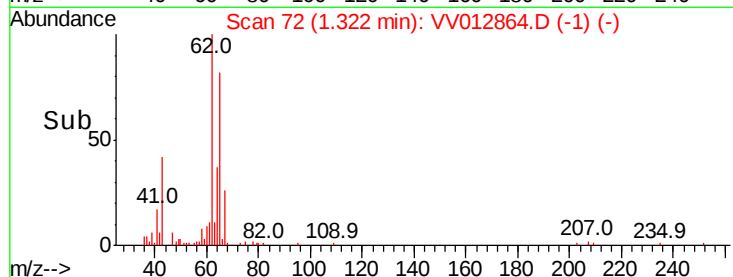
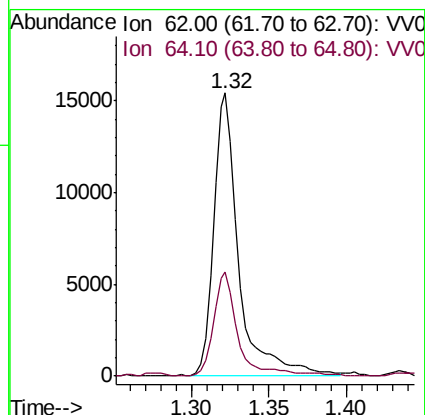
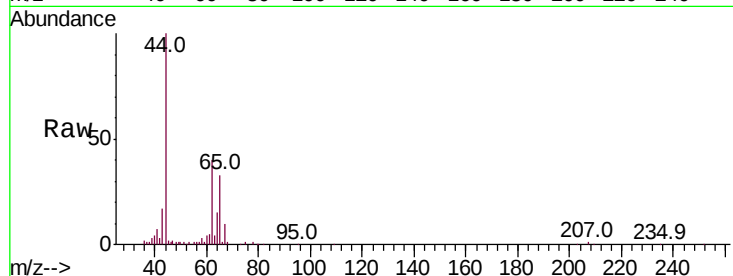
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 17665

Ion Ratio Lower Upper

62 100

64 37.0 22.5 41.7



#6

Bromomethane

Concen: 0.518 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV012864.D

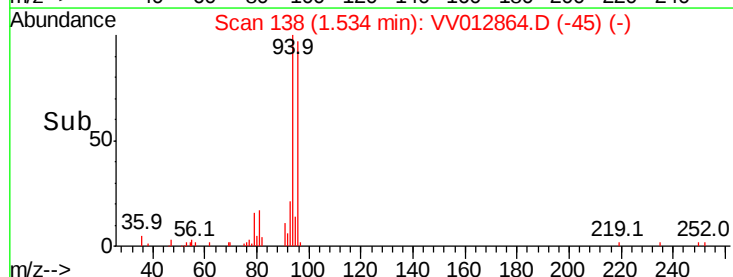
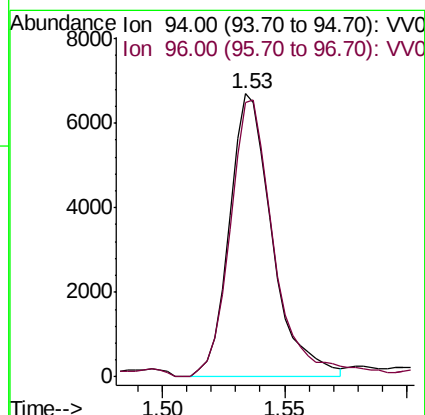
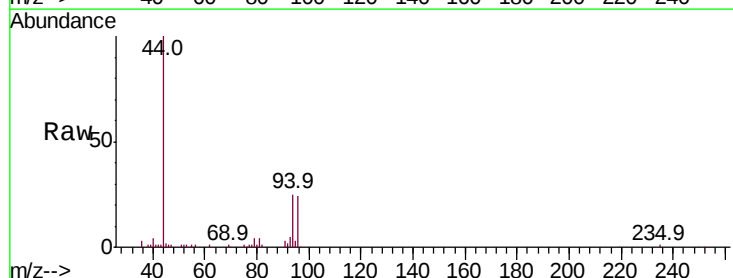
Acq: 17 Sep 2019 15:23

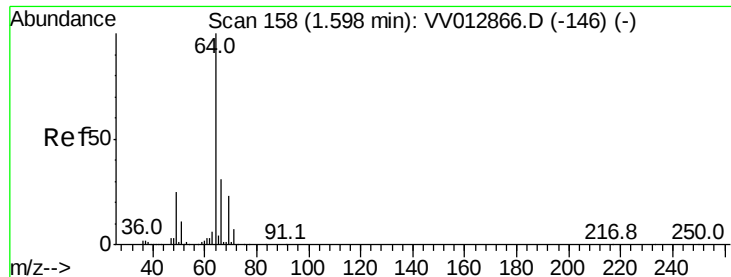
Tgt Ion: 94 Resp: 8184

Ion Ratio Lower Upper

94 100

96 96.8 65.6 121.8





#8

Chloroethane

Concen: 0.561 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

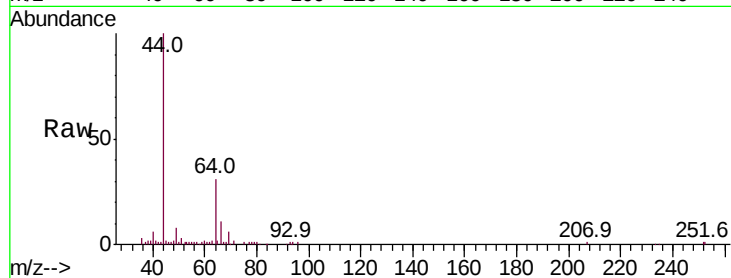
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 9351

Ion Ratio Lower Upper

64 100

66 35.1 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VV012866.D (-146) (-)

Ion 66.05 (65.75 to 66.75): VV012866.D (-146) (-)

8000

6000

4000

2000

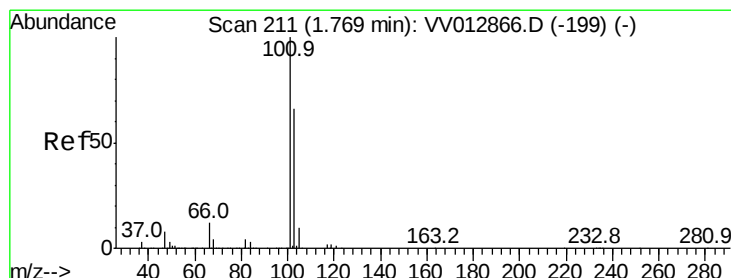
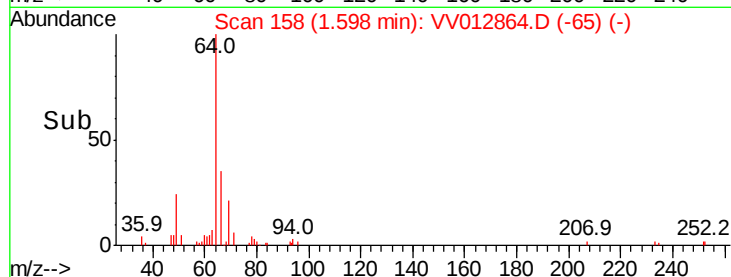
0

1.55

1.60

1.65

Time-->



#9

Trichlorofluoromethane

Concen: 0.570 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012864.D

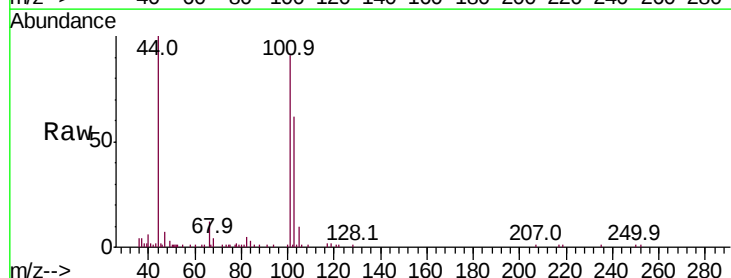
Acq: 17 Sep 2019 15:23

Tgt Ion: 101 Resp: 21581

Ion Ratio Lower Upper

101 100

103 69.4 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV012866.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV012866.D (-199) (-)

20000

15000

10000

5000

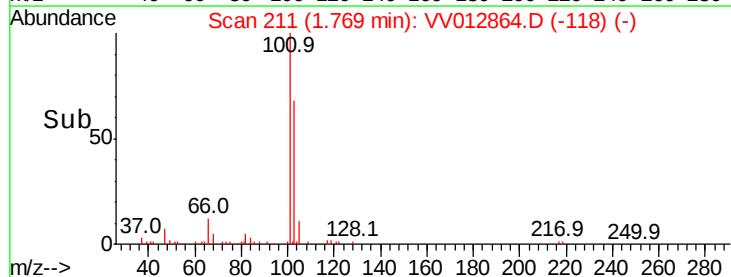
0

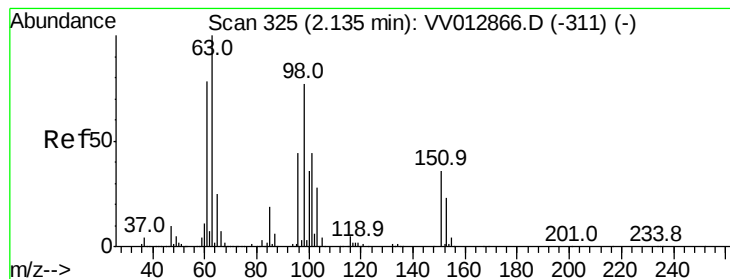
1.75

1.77

1.80

Time-->





#10

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

Concen: 0.574 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

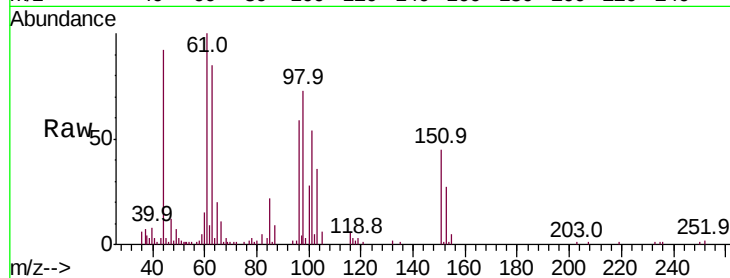
Tot Ion:101 Resp: 12872

Ion Ratio Lower Upper

101 100

85 42.9 33.5 50.3

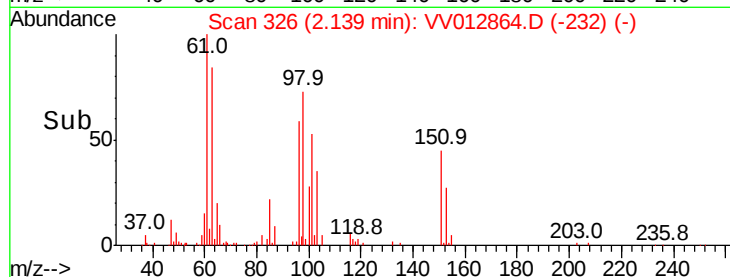
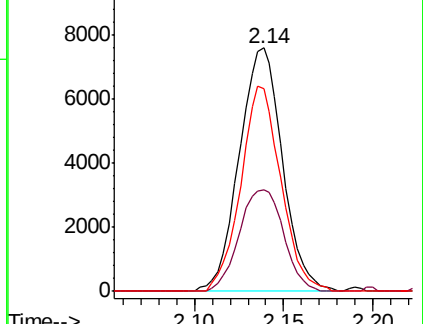
151 78.5 64.0 96.0



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: 0.578 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

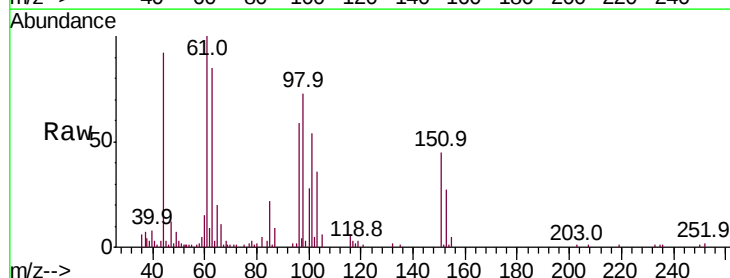
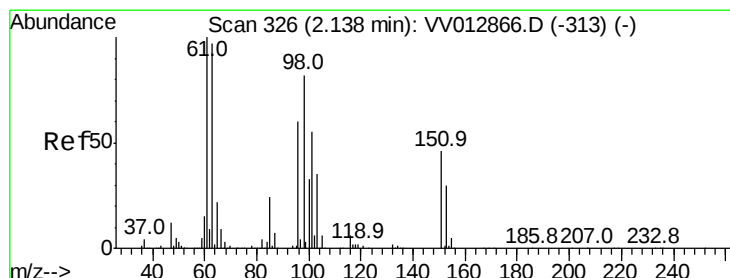
Tgt Ion: 96 Resp: 11915

Ion Ratio Lower Upper

96 100

61 169.2 116.1 215.5

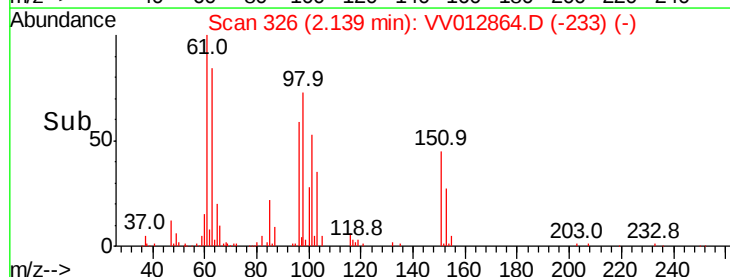
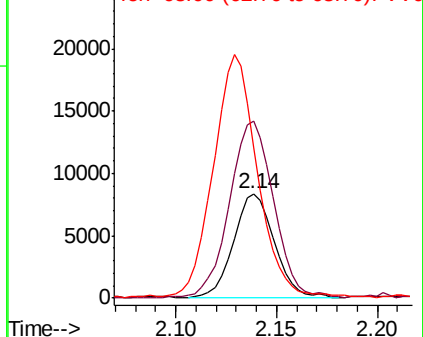
63 143.3 113.3 210.3

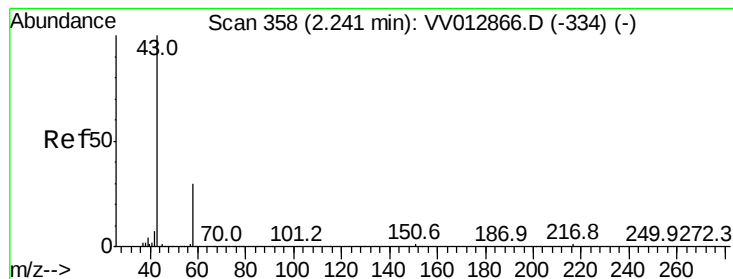


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 8.676 ug/L

RT: 2.24 min Scan# 358

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

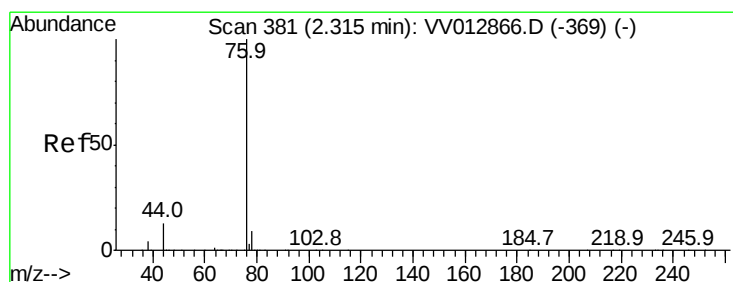
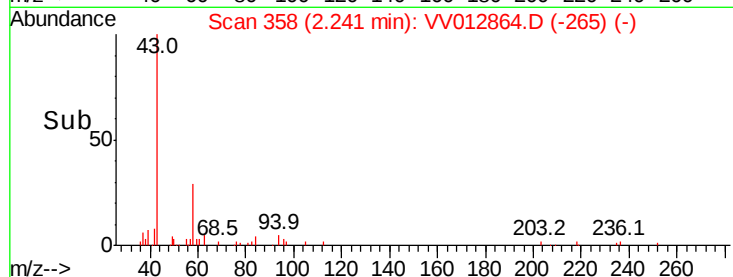
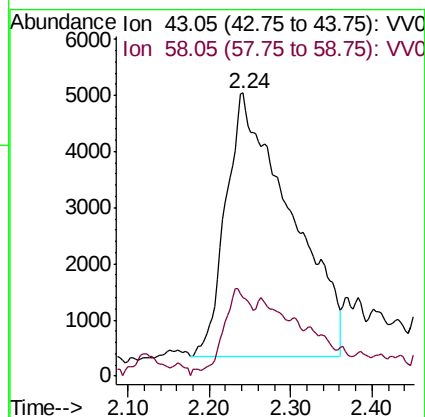
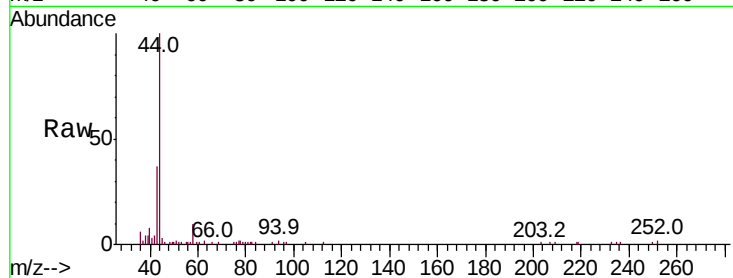
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 25947

Ion Ratio Lower Upper

43 100

58 12.2 0.0 24.4



#14

Carbon disulfide

Concen: 0.558 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012864.D

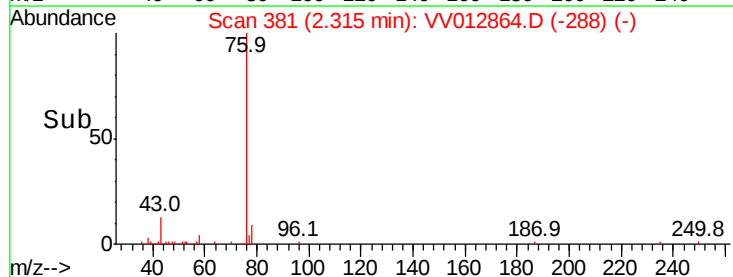
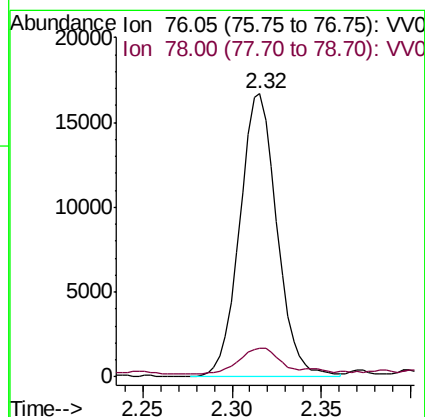
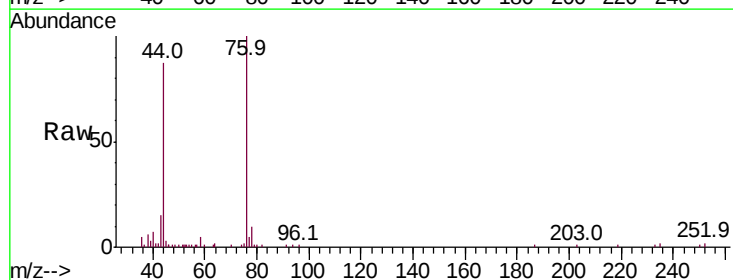
Acq: 17 Sep 2019 15:23

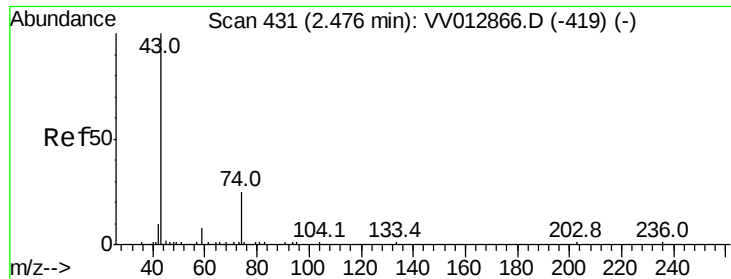
Tgt Ion: 76 Resp: 24446

Ion Ratio Lower Upper

76 100

78 10.3 7.6 11.4





#15

Methvl Acetate

Concen: 0.649 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

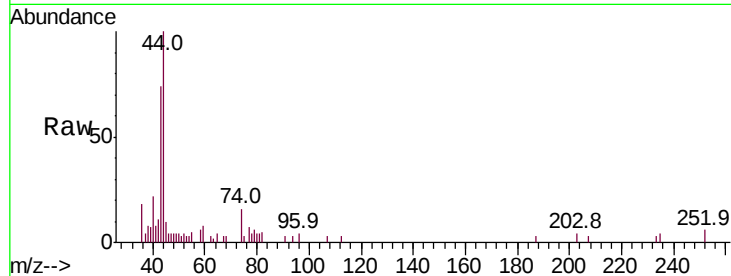
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 5787

Ion Ratio Lower Upper

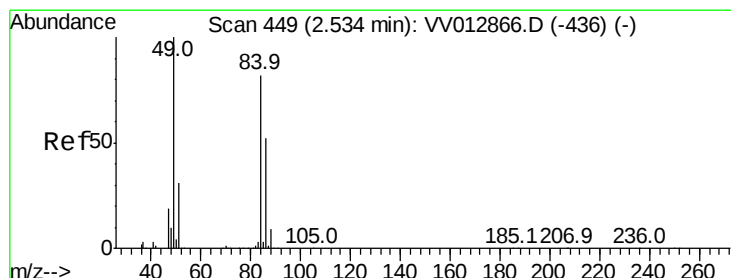
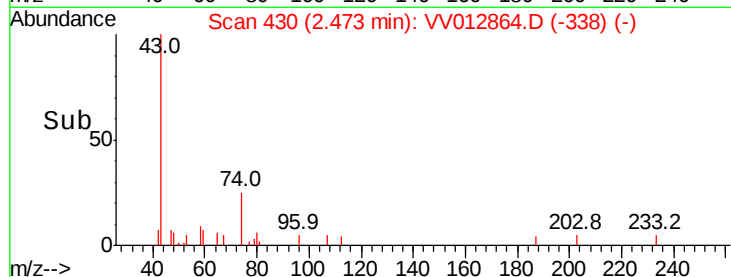
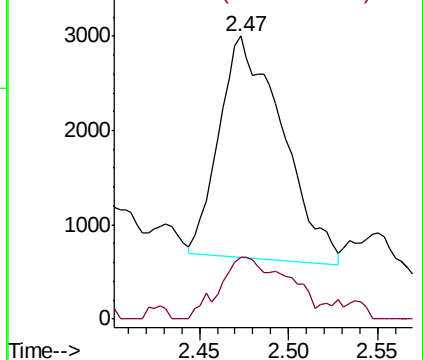
43 100

74 30.5 14.1 21.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 0.685 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

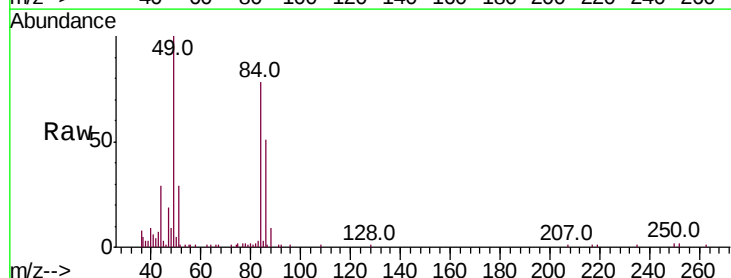
Tgt Ion: 84 Resp: 16845

Ion Ratio Lower Upper

84 100

86 65.4 44.8 83.2

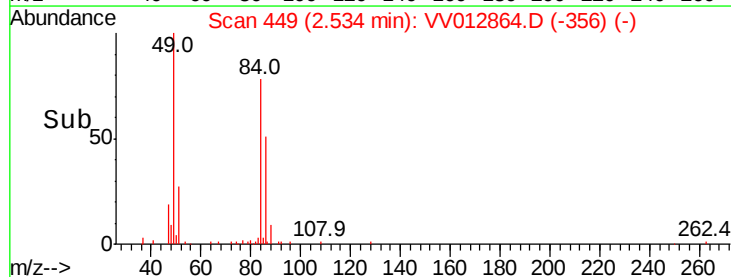
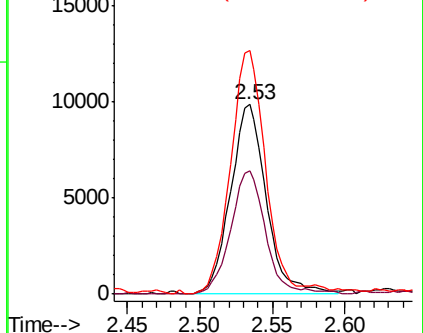
49 128.6 85.9 159.5

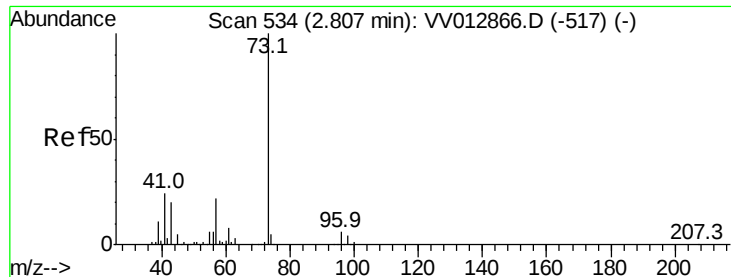


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

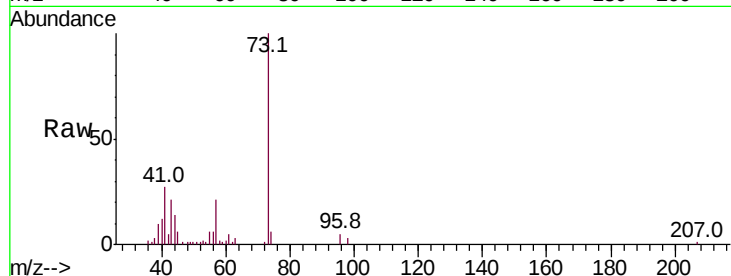




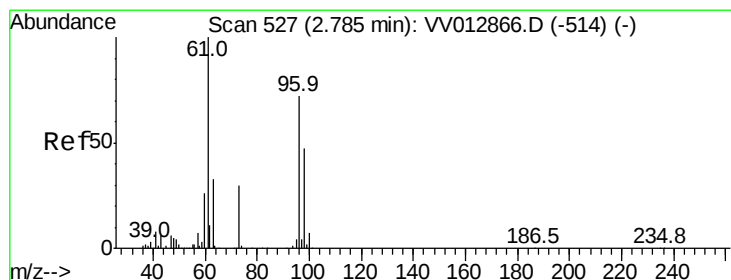
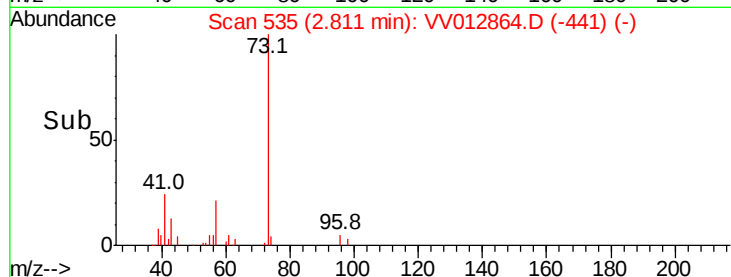
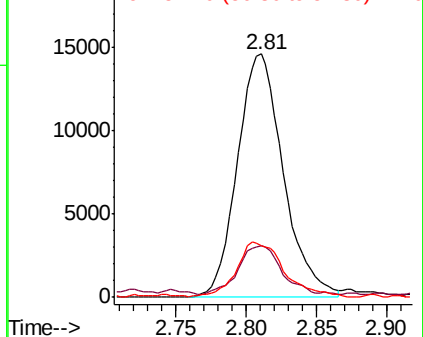
#17
Methvl tert-butvl Ether
Concen: 0.606 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 33218
Ion Ratio Lower Upper
73 100
43 18.4 15.0 22.4
57 23.7 17.9 26.9

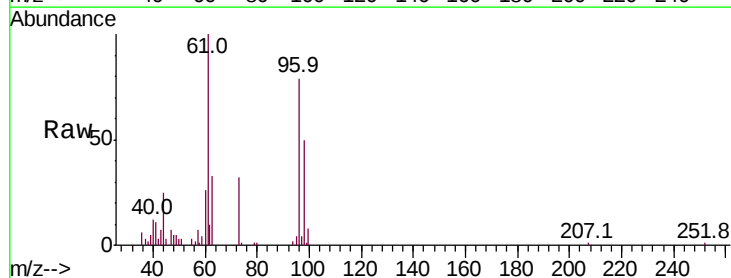


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

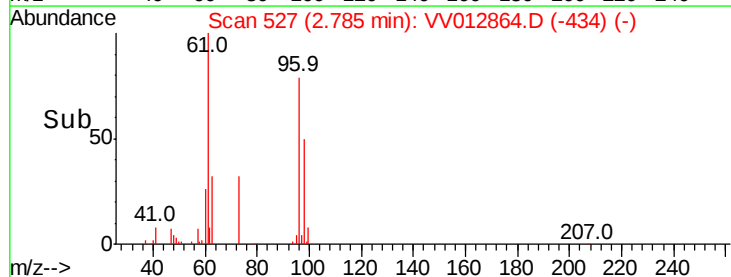
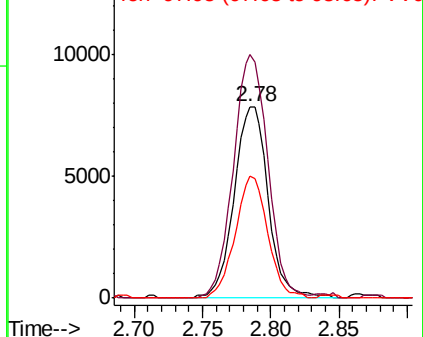


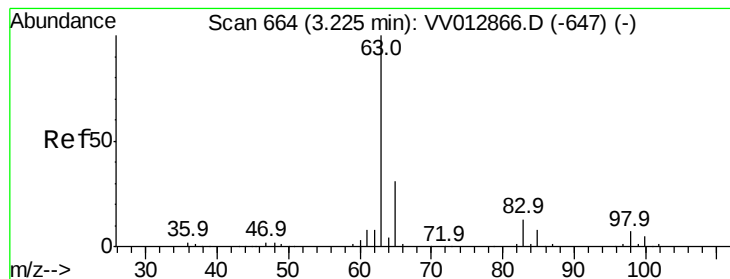
#18
trans-1,2-Dichloroethene
Concen: 0.607 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion: 96 Resp: 13622
Ion Ratio Lower Upper
96 100
61 127.4 96.8 179.8
98 63.7 45.2 84.0



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





#19

1,1-Dichloroethane

Concen: 0.572 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampleId :

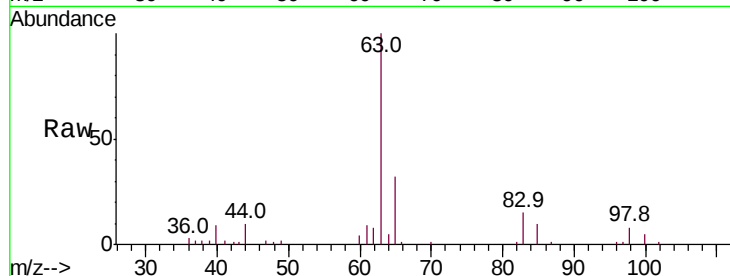
Tot Ion: 63 Resp: 26603

Ion Ratio Lower Upper

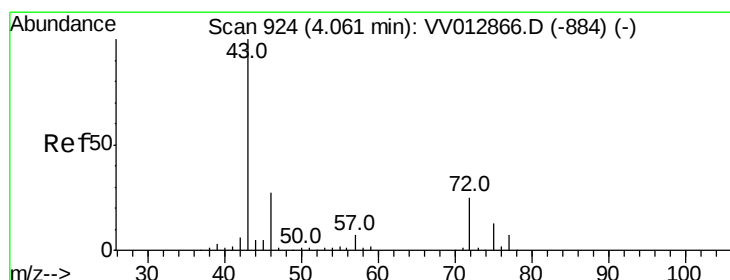
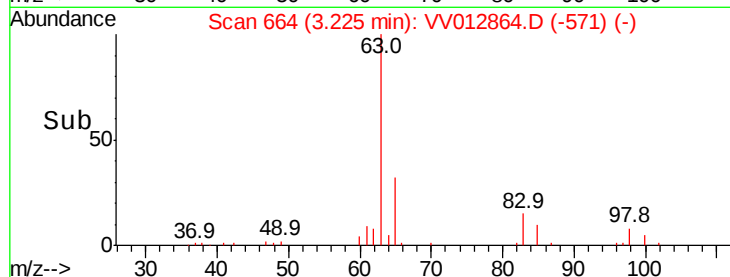
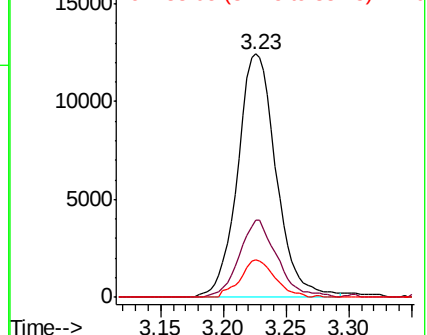
63 100

65 31.8 22.0 41.0

83 15.4 9.2 17.0



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 5.692 ug/L

RT: 4.08 min Scan# 929

Delta R.T. 0.02 min

Lab File: VV012864.D

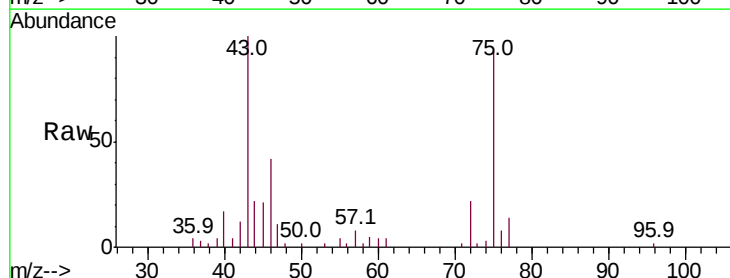
Acq: 17 Sep 2019 15:23

Tgt Ion: 43 Resp: 31546

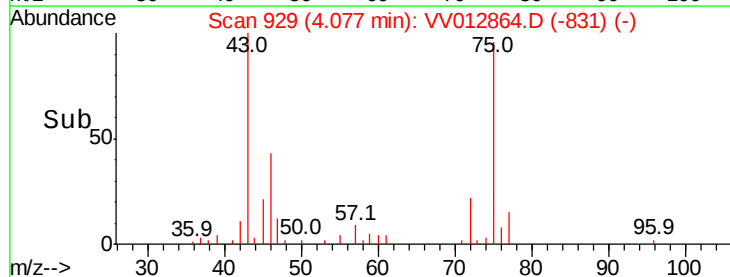
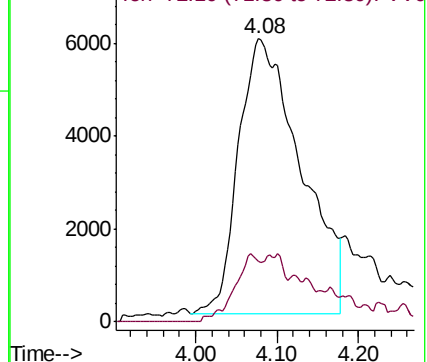
Ion Ratio Lower Upper

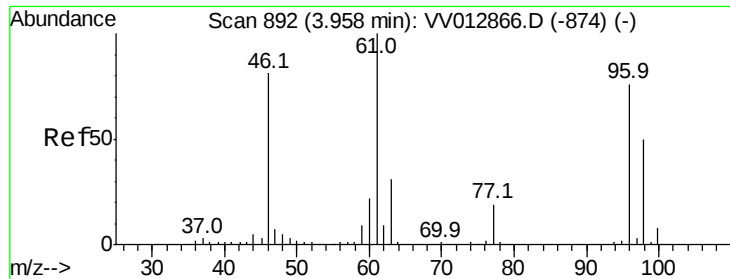
43 100

72 10.1 10.4 31.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 72.10 (71.80 to 72.80): VV0



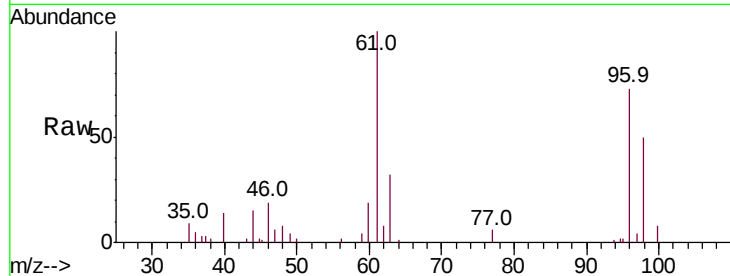


#22

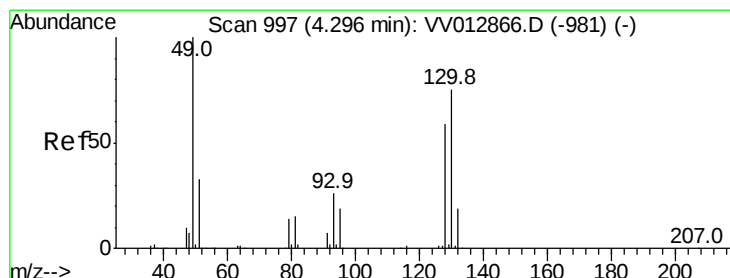
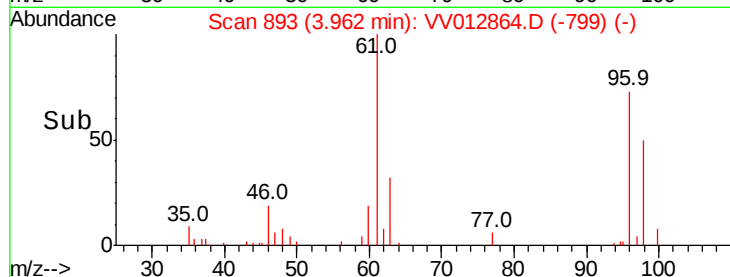
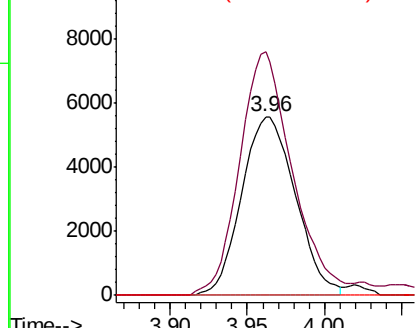
cis-1,2-Dichloroethene
Concen: 0.538 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 13476
Ion Ratio Lower Upper
96 100
61 136.2 91.8 170.6
68 0.0 0.0 0.0



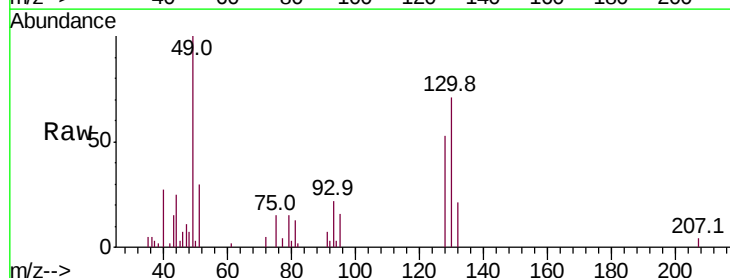
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



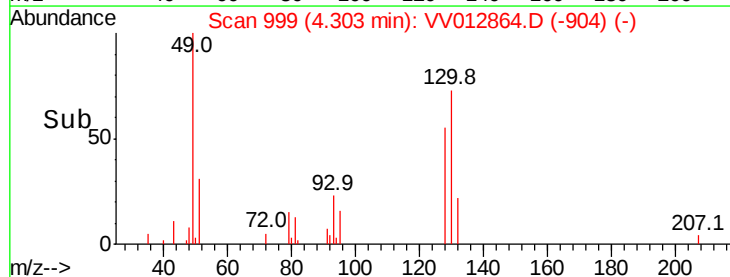
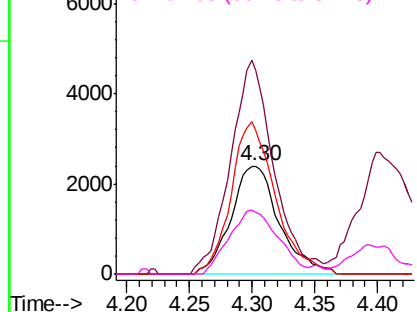
#23

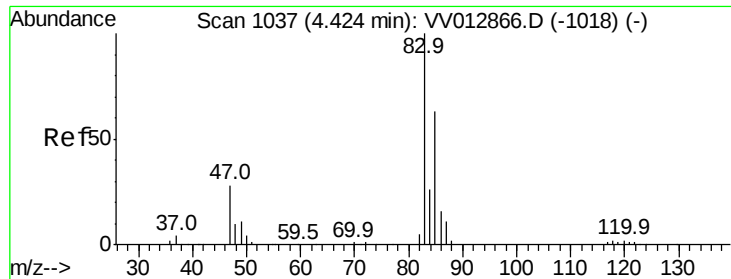
Bromochloromethane
Concen: 0.590 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.01 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion: 128 Resp: 6398
Ion Ratio Lower Upper
128 100
49 188.9 119.6 222.0
130 133.4 89.8 166.8
51 57.4 45.8 68.6



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

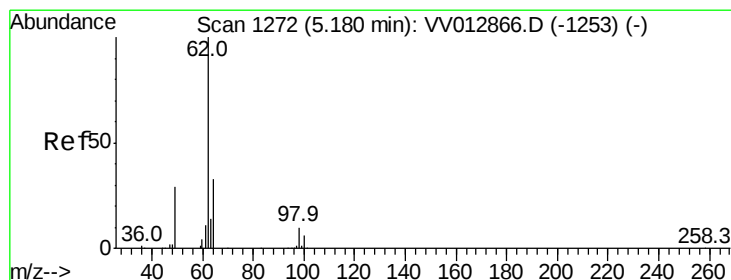
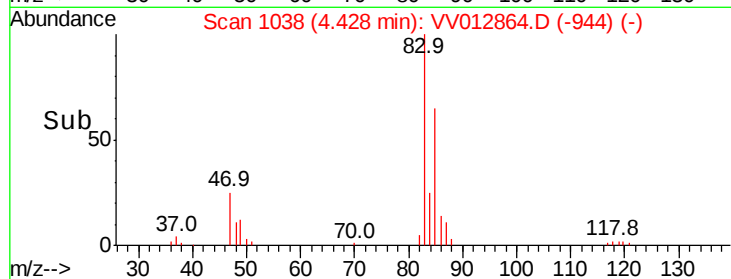
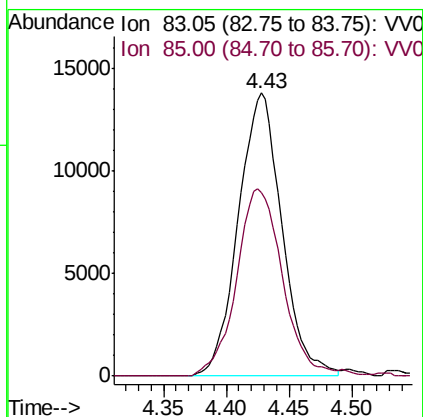
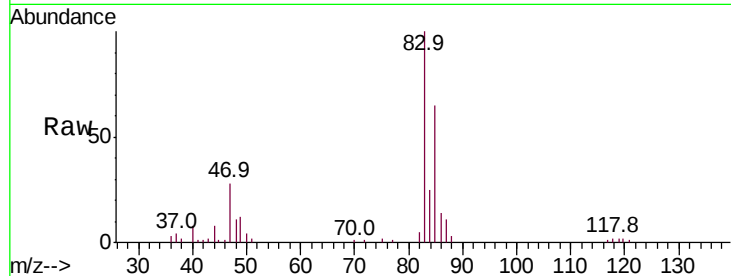




#25
Chloroform
Concen: 0.642 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

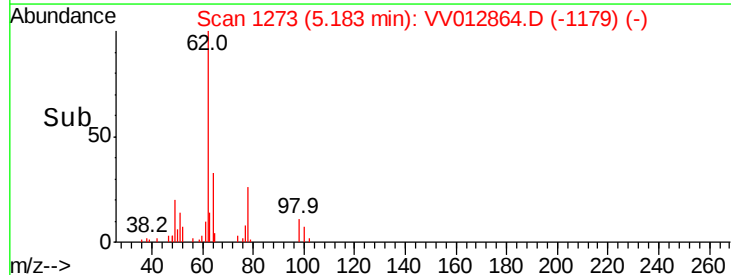
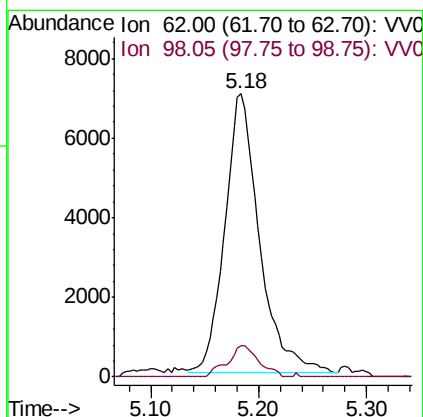
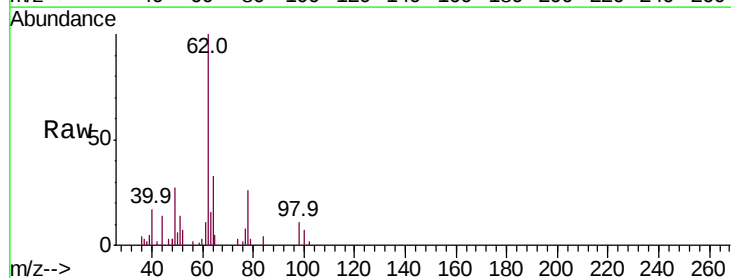
Instrument :
MSVOA_V
ClientSampled :

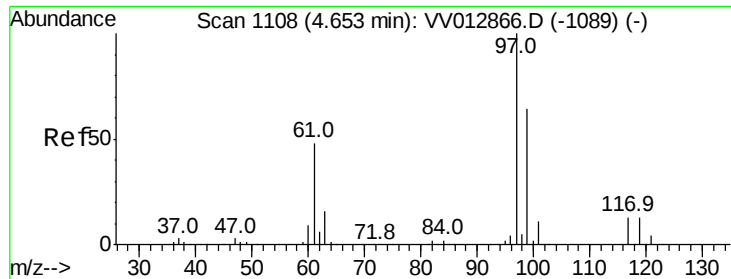
Tot Ion: 83 Resp: 33430
Ion Ratio Lower Upper
83 100
85 64.7 44.4 82.5



#27
1,2-Dichloroethane
Concen: 0.577 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion: 62 Resp: 15665
Ion Ratio Lower Upper
62 100
98 11.2 7.8 11.8

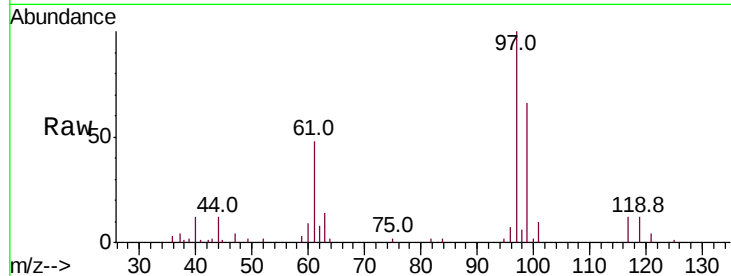




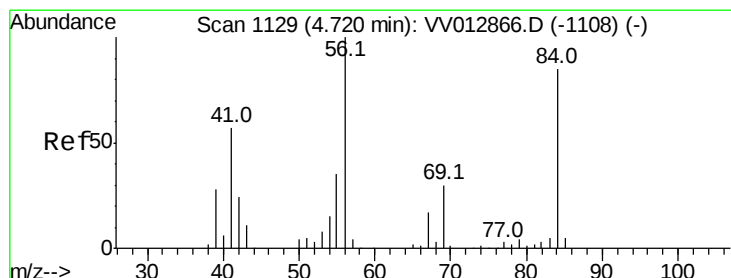
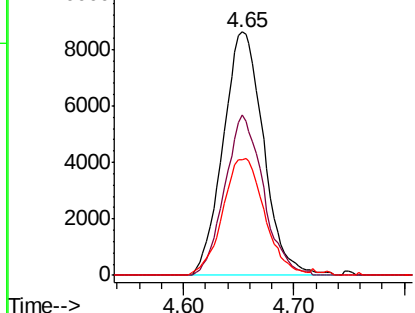
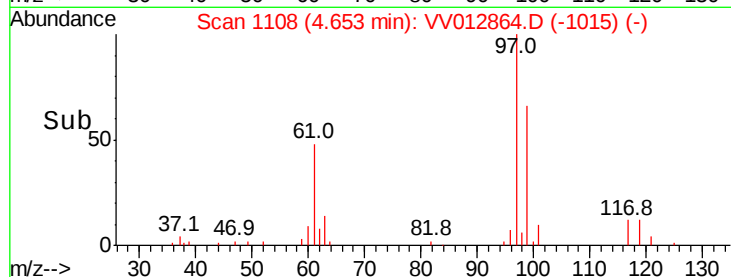
#29
 1,1,1-Trichloroethane
 Concen: 0.576 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 97 Resp: 21897
 Ion Ratio Lower Upper
 97 100
 99 62.5 50.9 76.3
 61 49.7 38.2 57.2

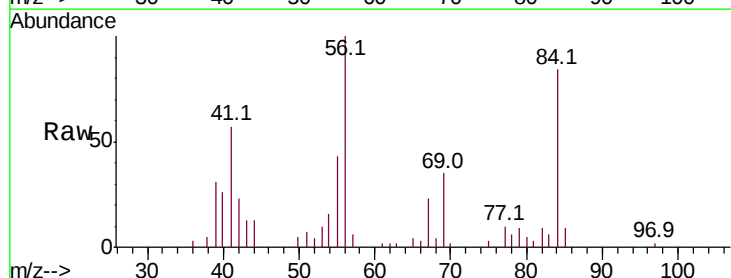


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

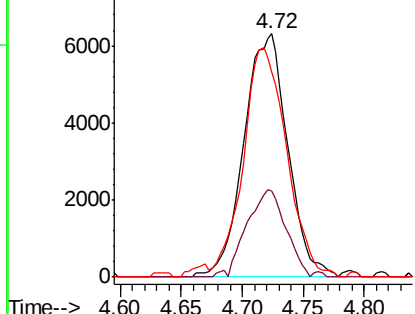
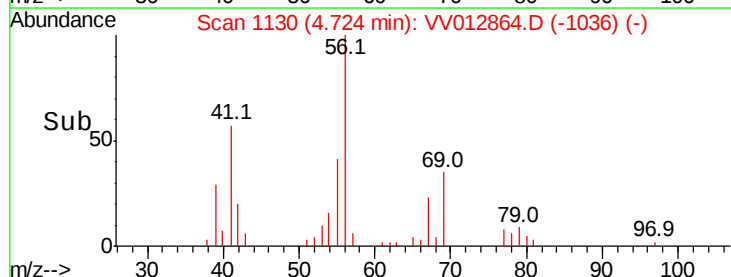


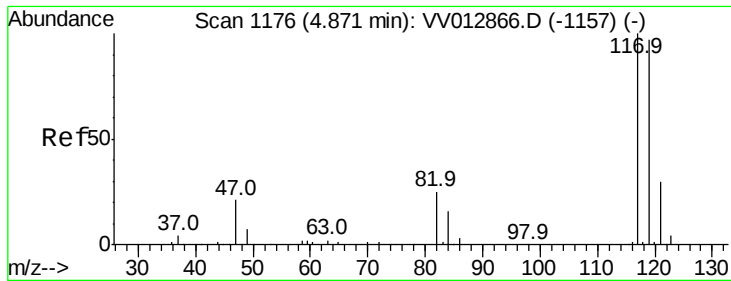
#30
 Cyclohexane
 Concen: 0.490 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

Tgt Ion: 56 Resp: 15686
 Ion Ratio Lower Upper
 56 100
 69 32.0 24.4 36.6
 84 93.2 69.3 103.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0

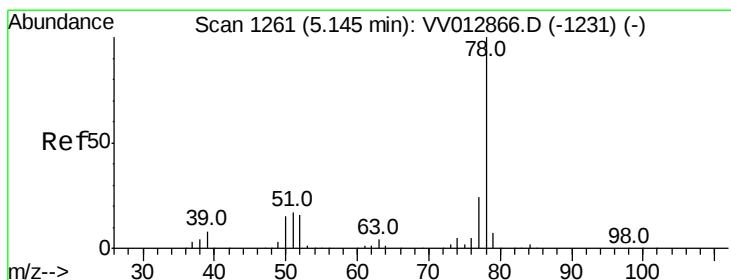
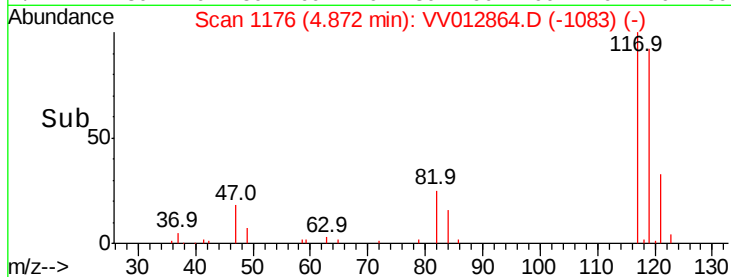
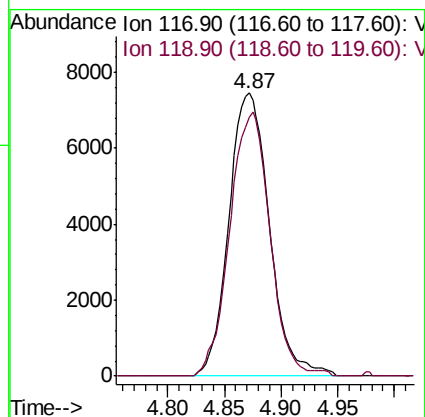
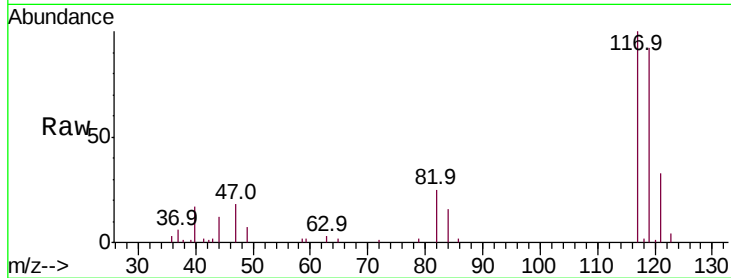




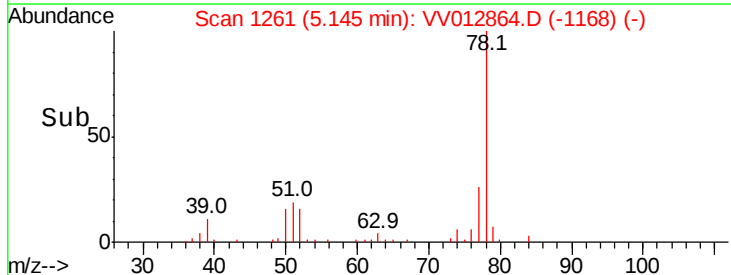
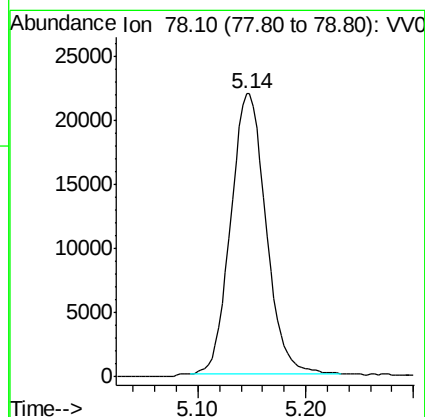
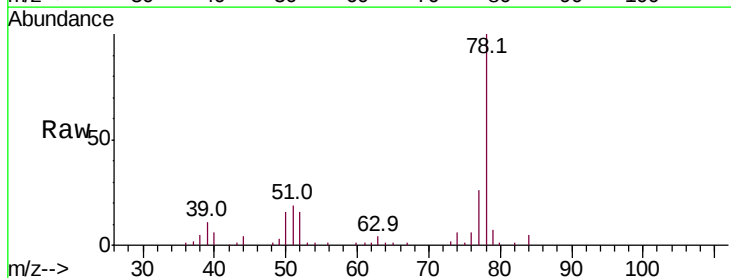
#31
Carbon tetrachloride
Concen: 0.578 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

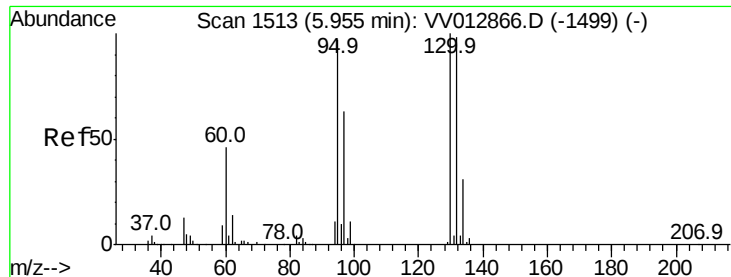
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 18591
Ion Ratio Lower Upper
117 100
119 92.7 75.6 113.4



#33
Benzene
Concen: 0.533 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23
Tgt Ion: 78 Resp: 49912





#34

Trichloroethene

Concen: 0.518 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 13590

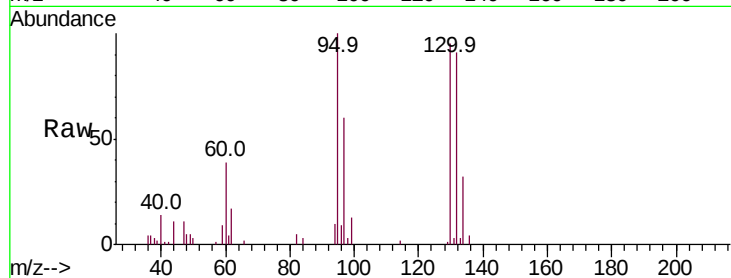
Ion Ratio Lower Upper

95 100

97 59.9 45.3 84.1

132 90.7 70.6 131.0

130 95.0 71.8 133.4

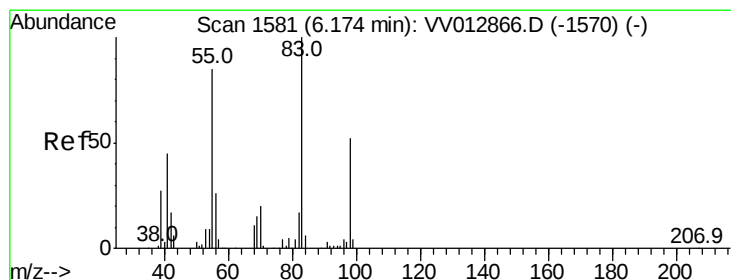
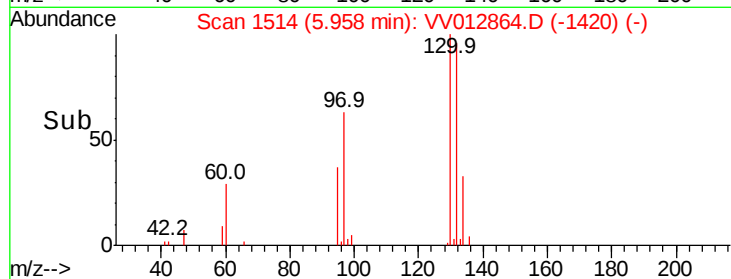
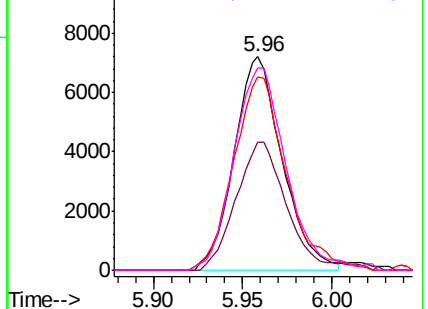


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.509 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

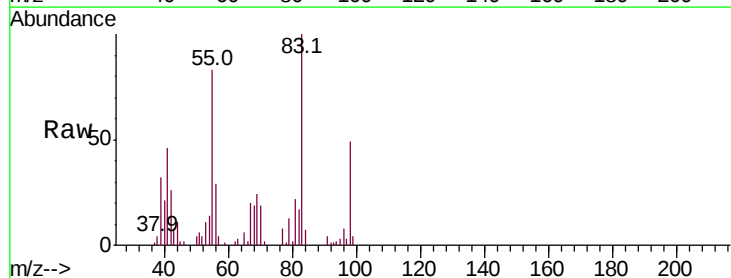
Tgt Ion: 83 Resp: 16666

Ion Ratio Lower Upper

83 100

55 81.5 63.8 95.6

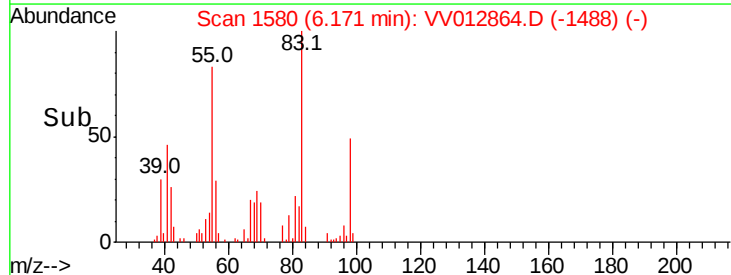
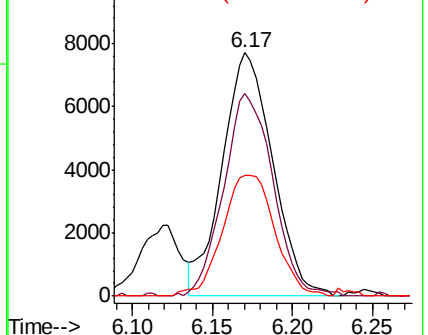
98 51.6 38.2 57.4

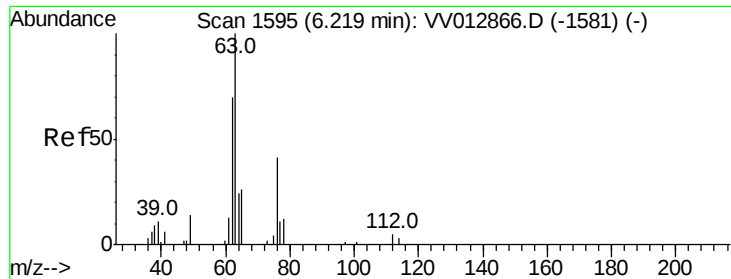


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.541 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

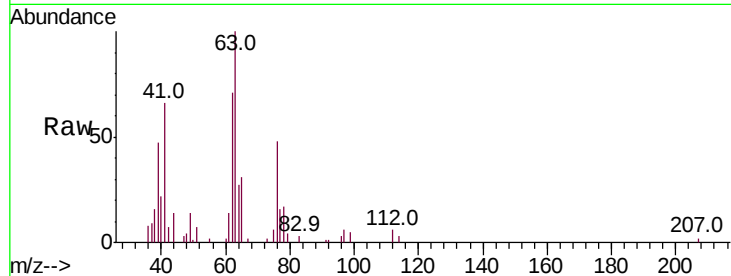
ClientSampleId :

Tot Ion: 63 Resp: 13711

Ion Ratio Lower Upper

63 100

112 5.1 3.8 5.6



Abundance Ion 63.10 (62.80 to 63.80): VV012866.D (-1581) (-)

Ion 112.10 (111.80 to 112.80): VV012866.D (-1581) (-)

6.22

8000

6000

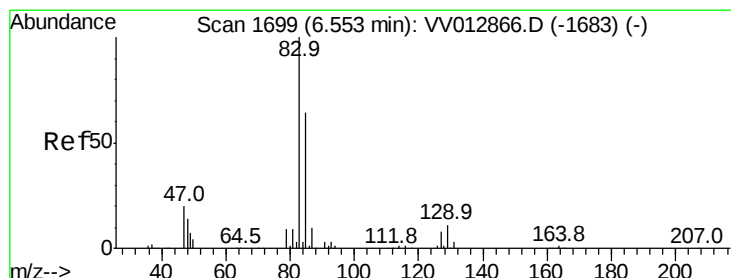
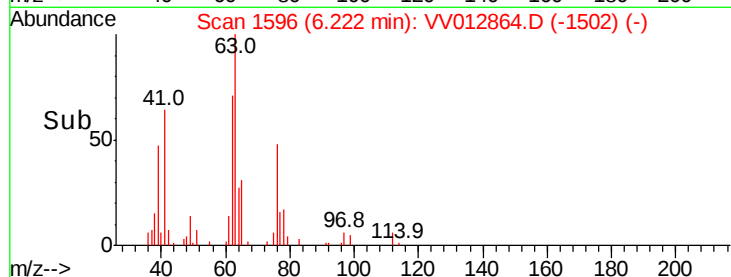
4000

2000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 0.602 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

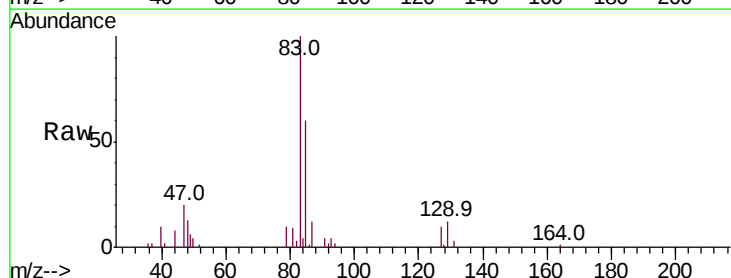
Tgt Ion: 83 Resp: 19697

Ion Ratio Lower Upper

83 100

85 60.5 44.9 83.5

127 9.6 6.8 10.2



Abundance Ion 82.95 (82.65 to 83.65): VV012866.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV012866.D (-1683) (-)

Ion 126.90 (126.60 to 127.60): VV012866.D (-1683) (-)

6.56

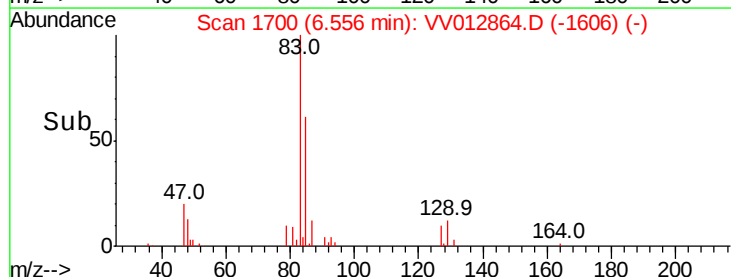
10000

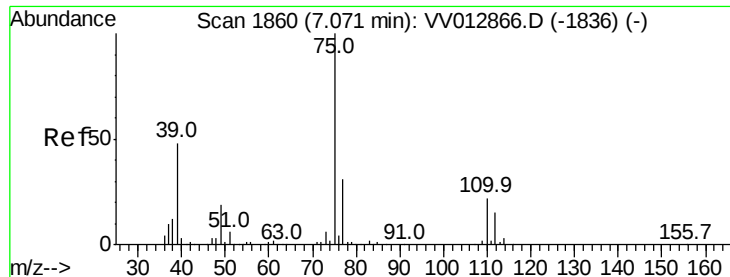
5000

0

6.50 6.55 6.60

Time-->



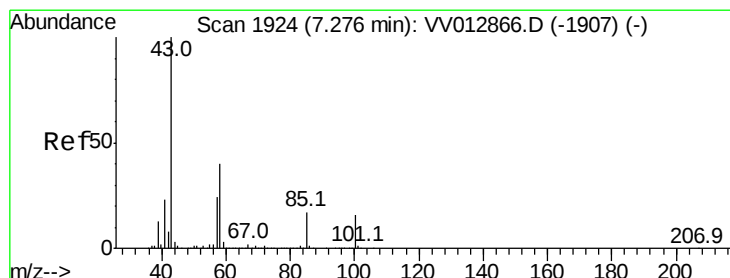
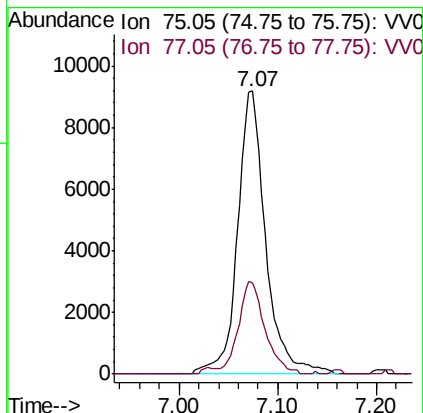
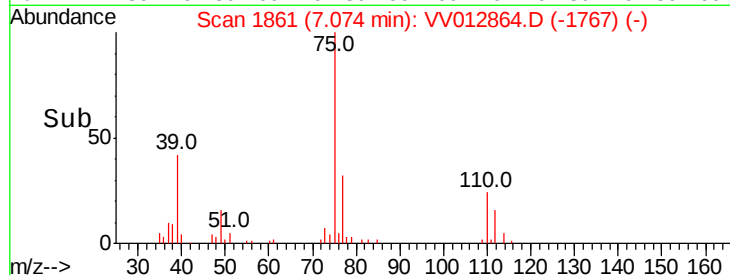
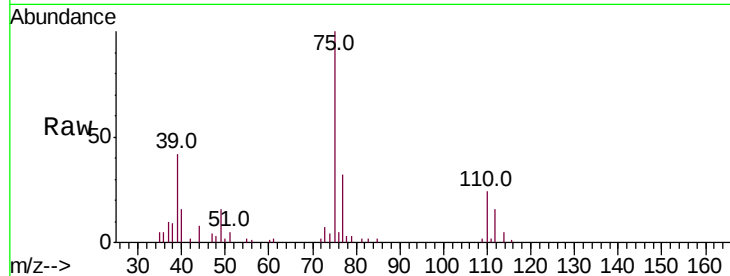


#39

cis-1,3-Dichloropropene
Concen: 0.572 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampled :

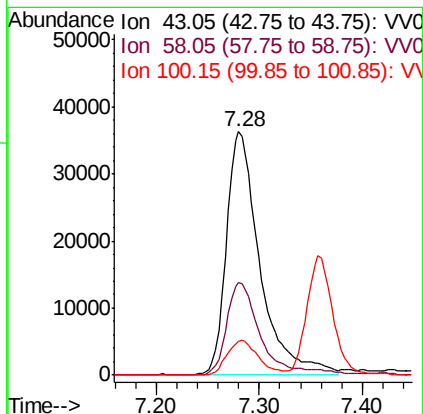
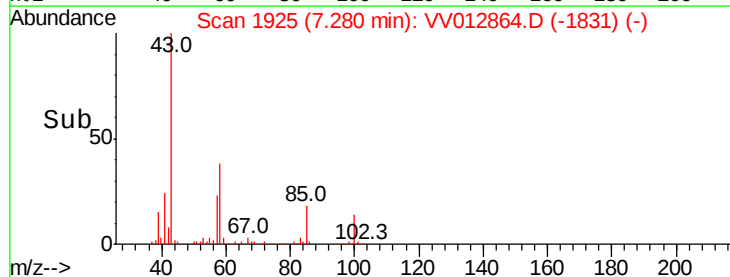
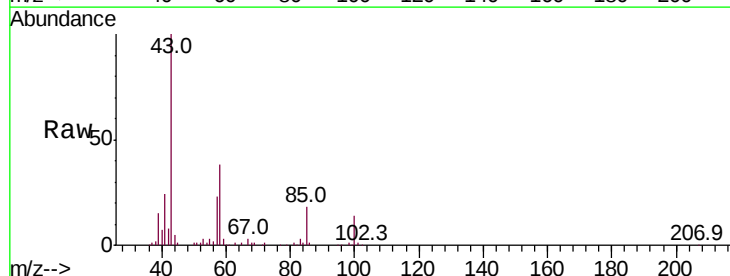
Tot Ion: 75 Resp: 18113
Ion Ratio Lower Upper
75 100
77 32.4 21.6 40.0

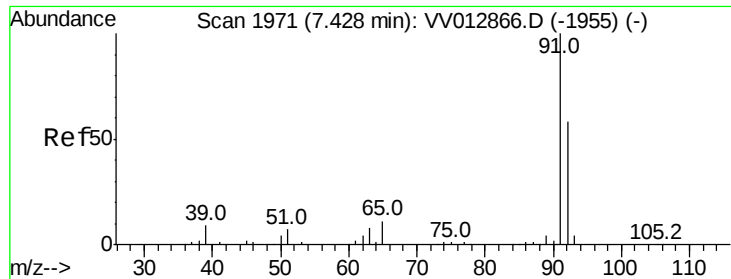


#40

4-Methyl-2-pentanone
Concen: 5.654 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion: 43 Resp: 82242
Ion Ratio Lower Upper
43 100
58 38.5 30.8 46.2
100 13.6 11.8 17.6





#42

Toluene

Concen: 0.513 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

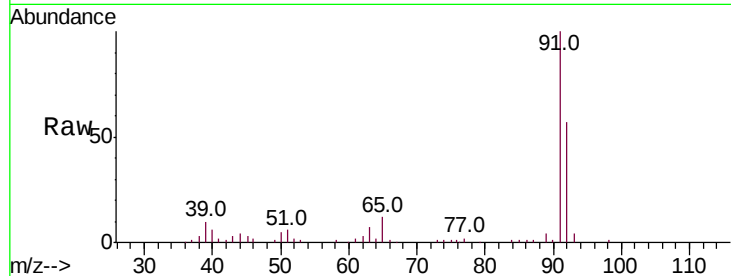
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 49142

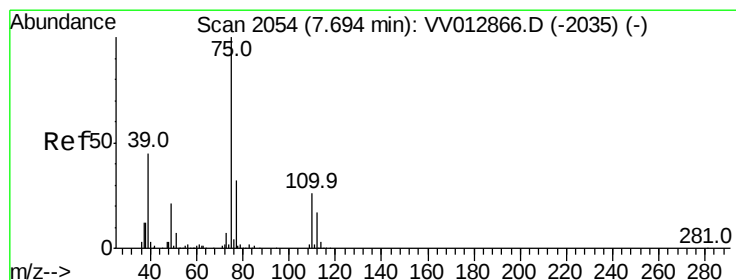
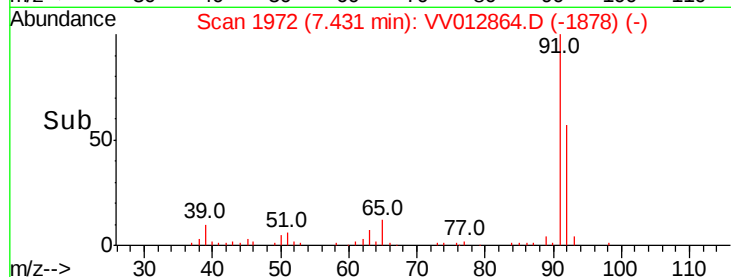
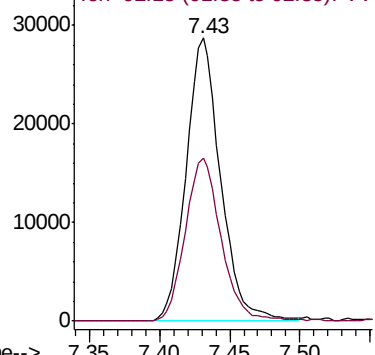
Ion Ratio Lower Upper

91 100

92 57.5 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.559 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012864.D

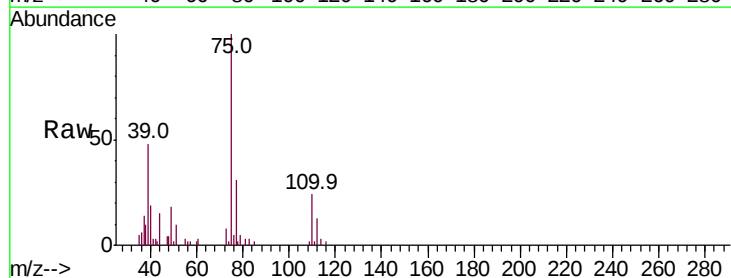
Acq: 17 Sep 2019 15:23

Tgt Ion: 75 Resp: 14095

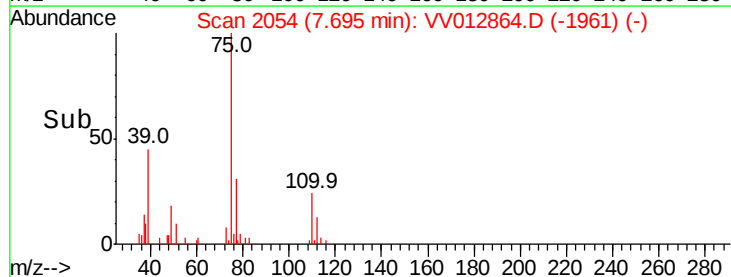
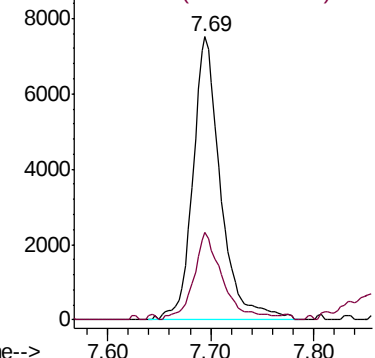
Ion Ratio Lower Upper

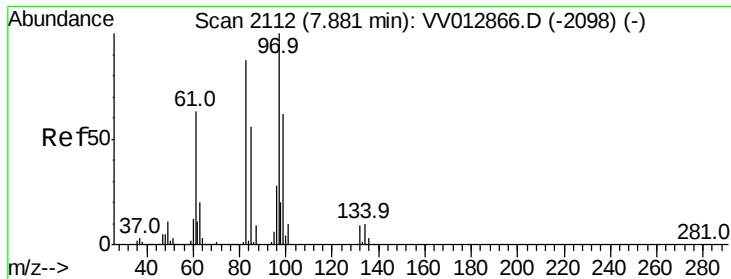
75 100

77 30.8 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0





#45

1,1,2-Trichloroethane

Concen: 0.625 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 97 Resp: 11350

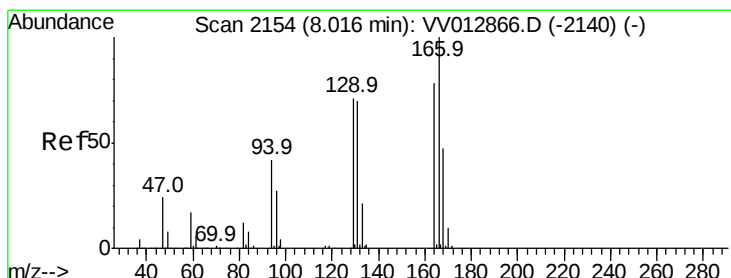
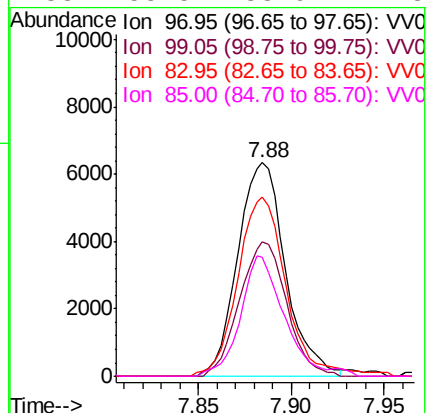
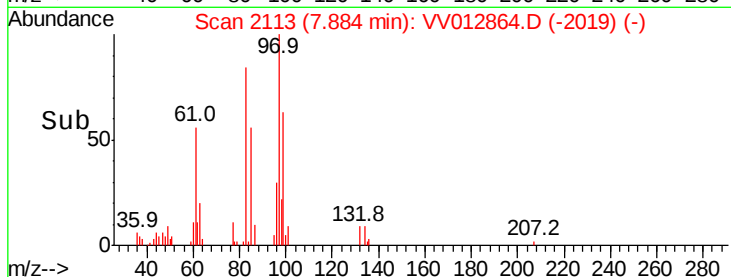
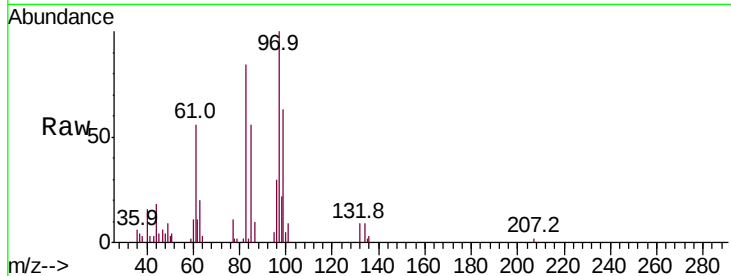
Ion Ratio Lower Upper

97 100

99 63.0 43.7 81.1

83 83.8 60.6 112.6

85 55.5 38.9 72.3



#47

Tetrachloroethene

Concen: 0.575 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Tgt Ion: 164 Resp: 11235

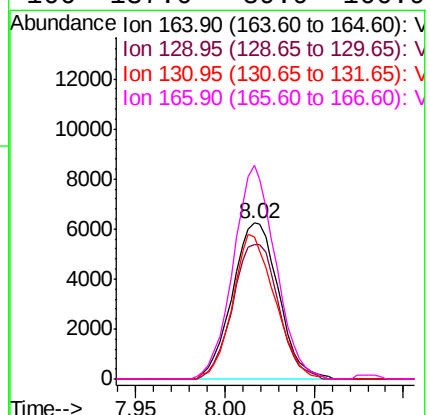
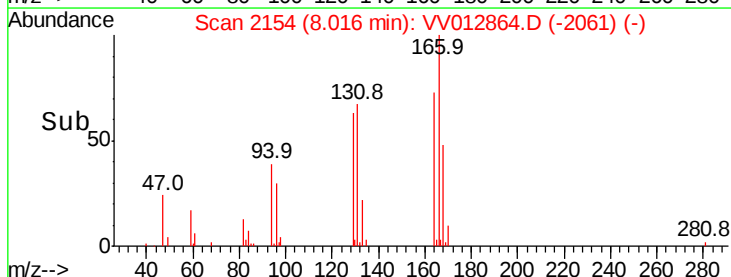
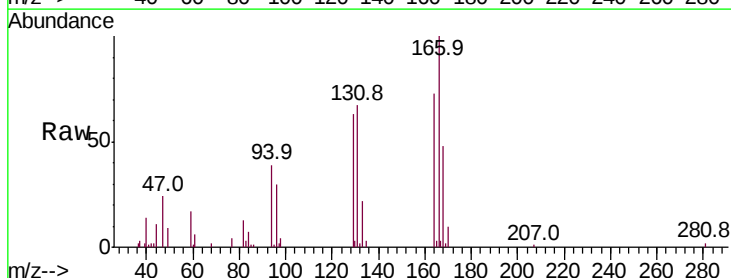
Ion Ratio Lower Upper

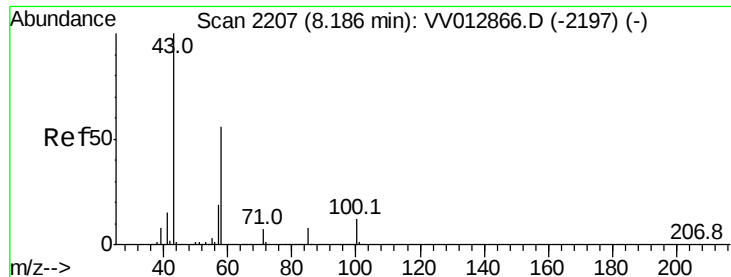
164 100

129 86.2 63.8 118.6

131 91.2 63.1 117.3

166 137.0 89.9 166.9

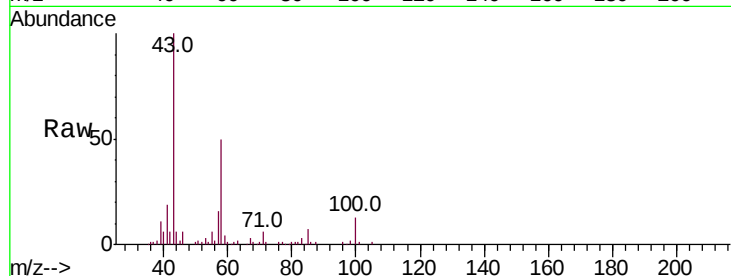




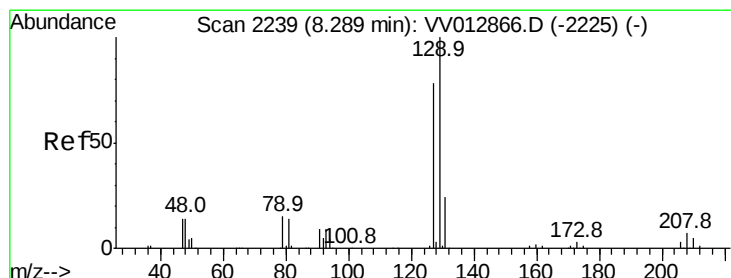
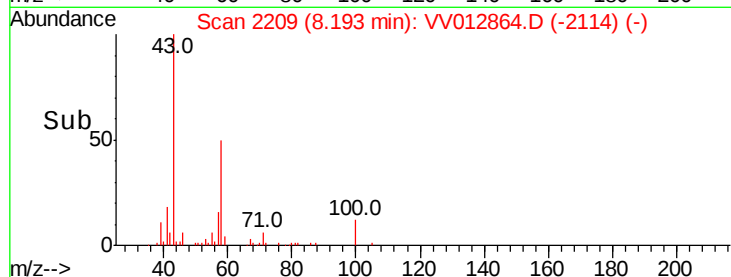
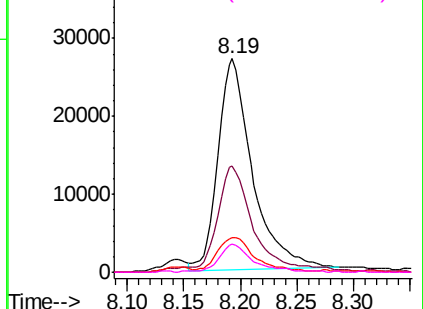
#48
2-Hexanone
Concen: 5.197 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	43	Resp:	57119
Ion	Ratio	Lower	Upper
43	100		
58	55.1	44.5	66.7
57	18.5	15.0	22.6
100	13.2	9.7	14.5

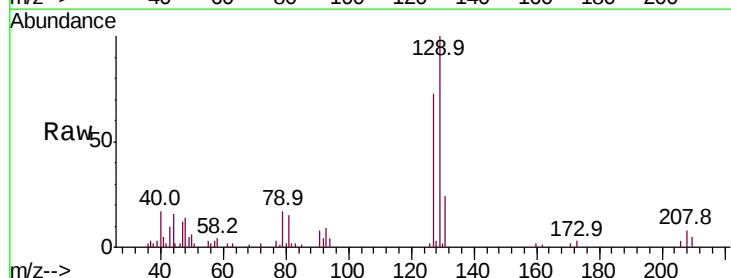


Abundance Ion 43.05 (42.75 to 43.75): VV012866.D (-2197) (-)
Ion 58.05 (57.75 to 58.75): VV012866.D (-2197) (-)
Ion 57.20 (56.90 to 57.90): VV012866.D (-2197) (-)
Ion 100.15 (99.85 to 100.85): VV012866.D (-2197) (-)

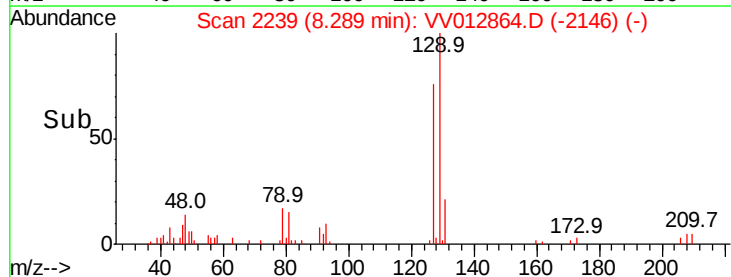
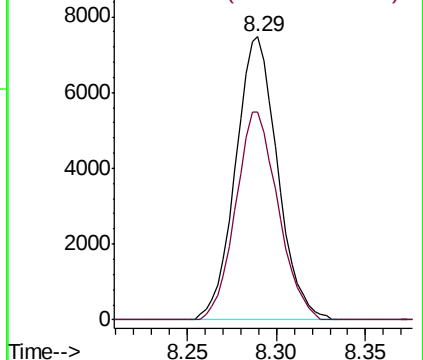


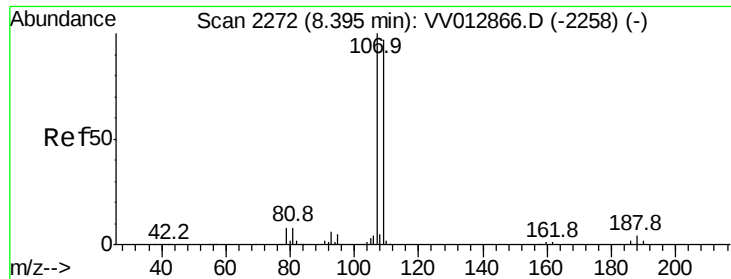
#49
Dibromochloromethane
Concen: 0.592 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion:	129	Resp:	12243
Ion	Ratio	Lower	Upper
129	100		
127	73.5	54.7	101.7



Abundance Ion 128.95 (128.65 to 129.65): VV012866.D (-2225) (-)
Ion 126.90 (126.60 to 127.60): VV012866.D (-2225) (-)

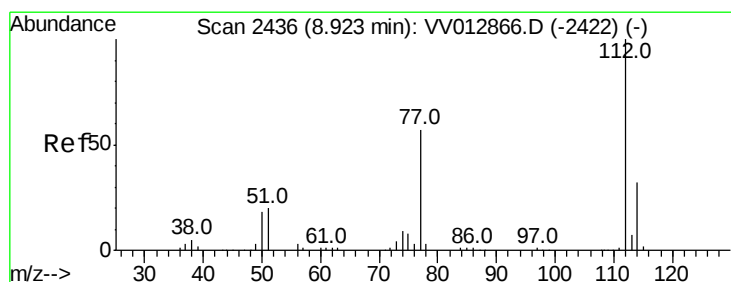
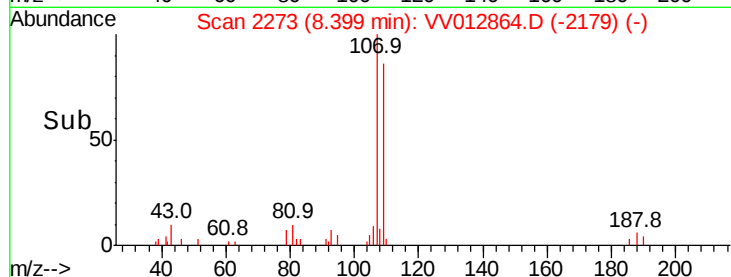
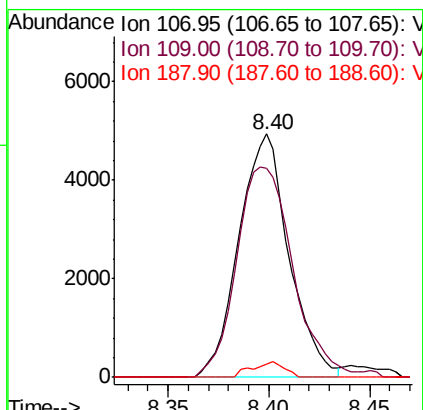
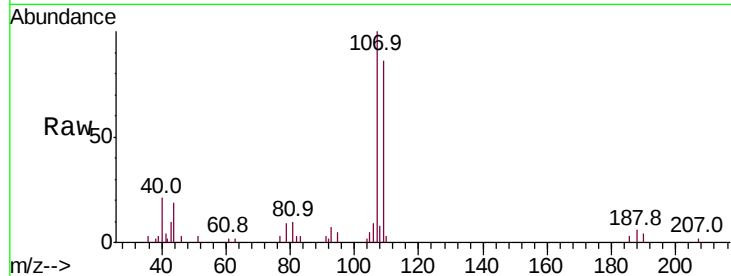




#50
 1,2-Dibromoethane
 Concen: 0.566 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

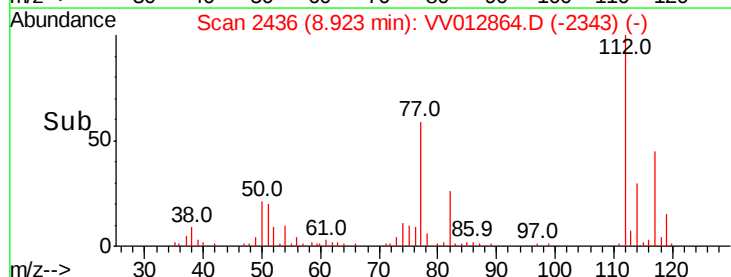
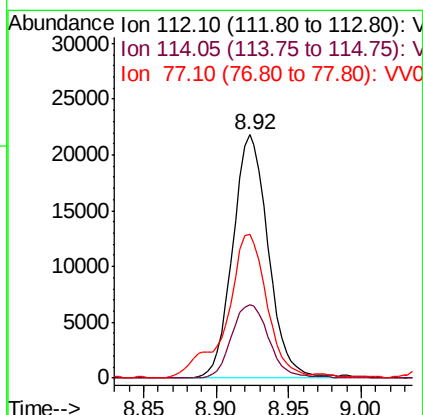
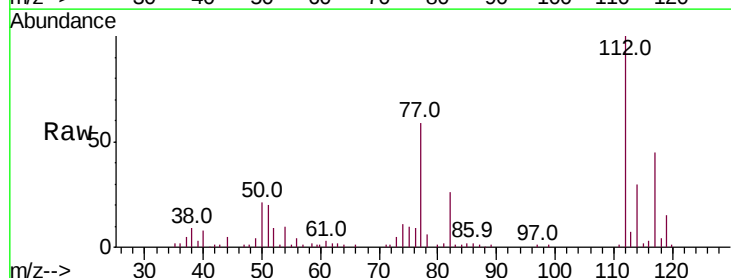
Instrument :
 MSVOA_V
 ClientSampleId :

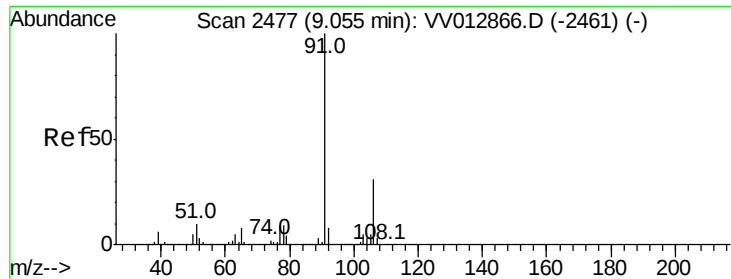
Tot Ion	Ratio	Lower	Upper
107	100		
109	85.9	68.0	126.2
188	5.7	3.2	4.8#



#51
 Chlorobenzene
 Concen: 0.562 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.3	22.3	41.5
77	59.0	45.8	68.8

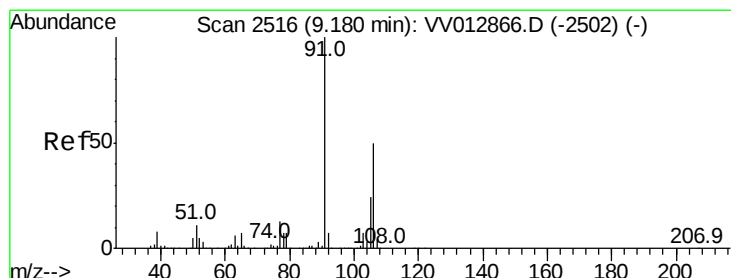
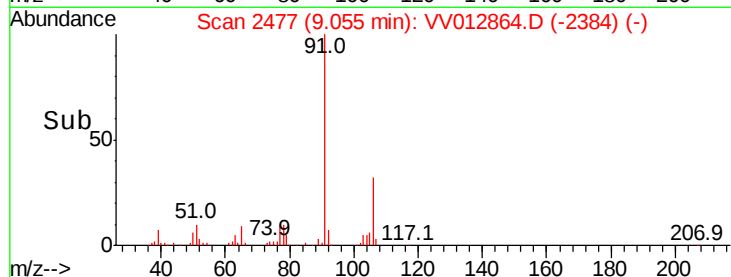
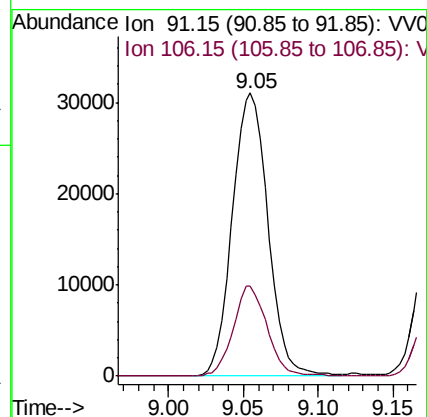
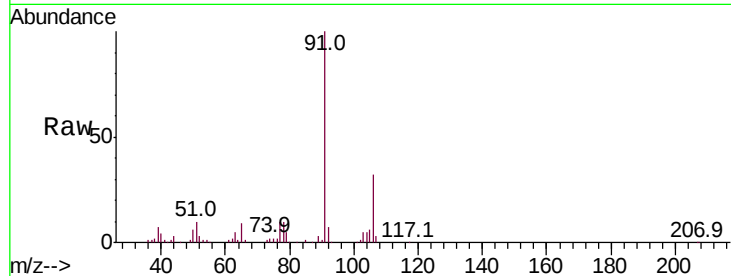




#52
Ethylbenzene
Concen: 0.505 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

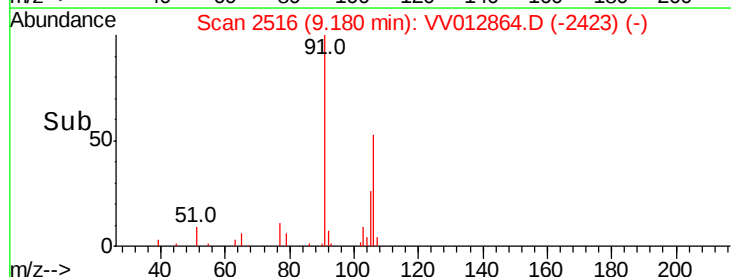
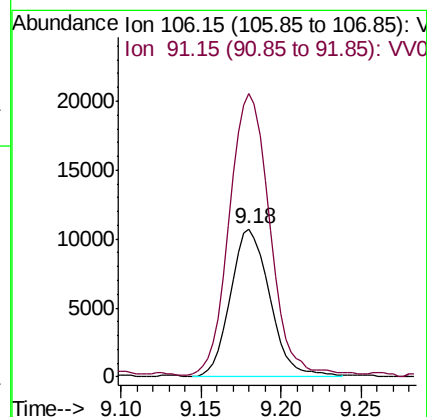
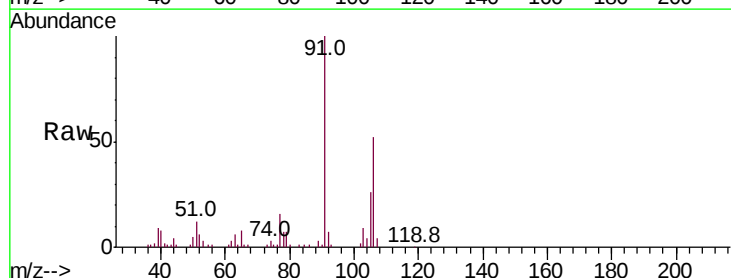
Instrument :
MSVOA_V
ClientSampleId :

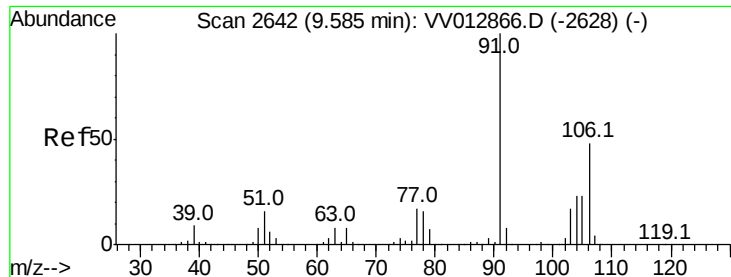
Tot Ion: 91 Resp: 51592
Ion Ratio Lower Upper
91 100
106 31.7 21.7 40.3



#53
m,p-xylene
Concen: 0.476 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV012864.D
Acq: 17 Sep 2019 15:23

Tgt Ion: 106 Resp: 18059
Ion Ratio Lower Upper
106 100
91 191.3 139.6 259.2





#54

o-xylene

Concen: 0.461 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

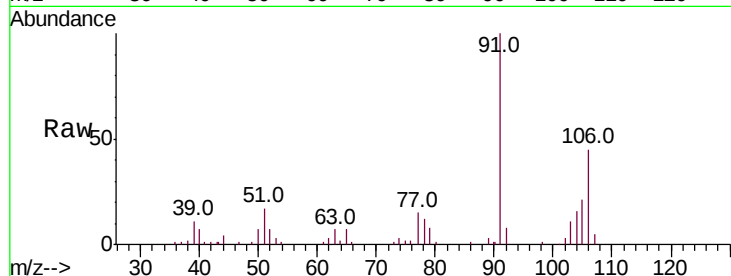
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 17032

Ion Ratio Lower Upper

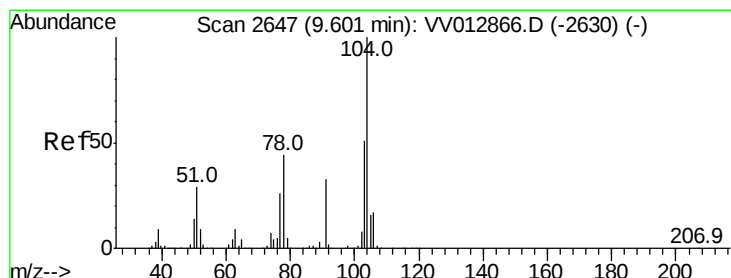
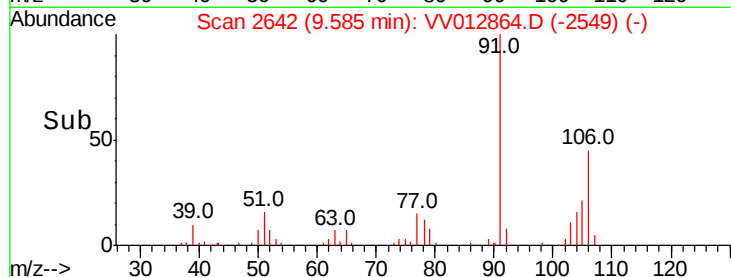
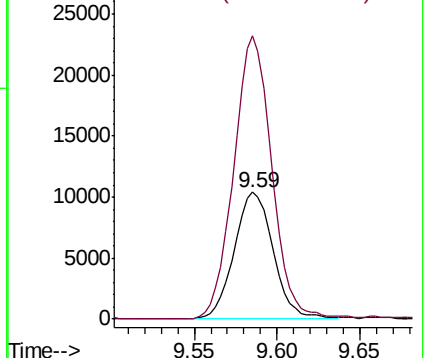
106 100

91 223.4 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.445 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012864.D

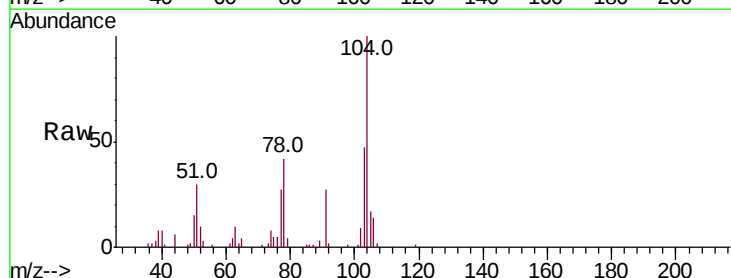
Acq: 17 Sep 2019 15:23

Tgt Ion:104 Resp: 27911

Ion Ratio Lower Upper

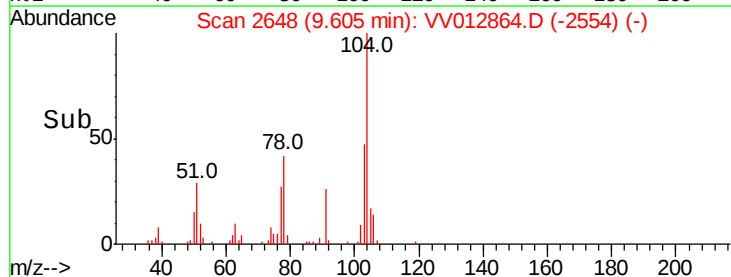
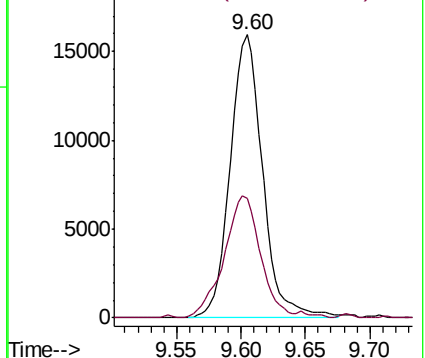
104 100

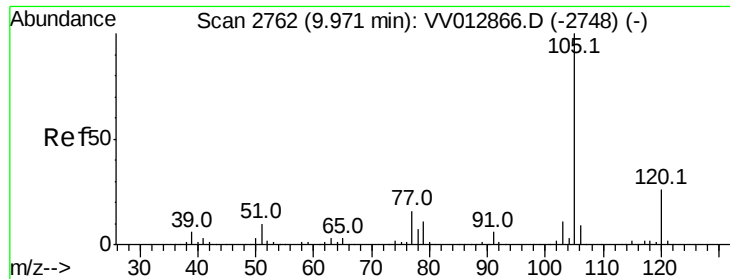
78 42.1 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.455 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :
MSVOA_V
ClientSampleId :

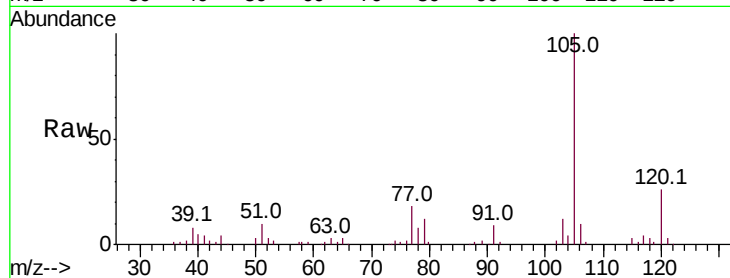
Tot Ion:105 Resp: 45133

Ion Ratio Lower Upper

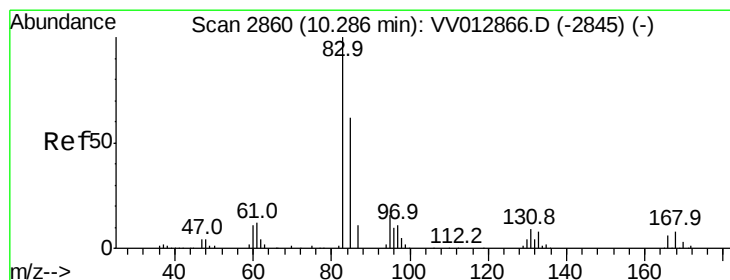
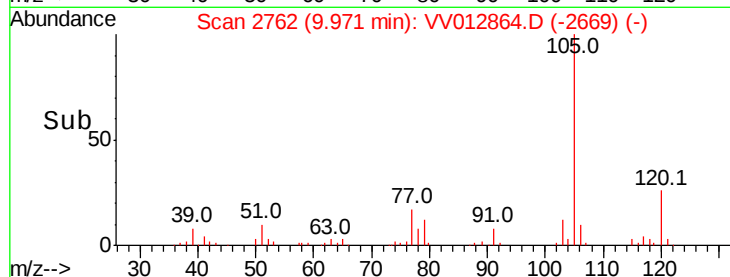
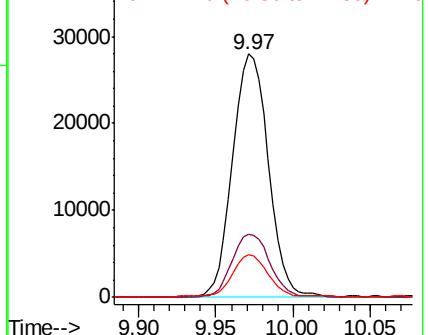
105 100

120 27.6 20.8 31.2

77 18.2 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.756 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

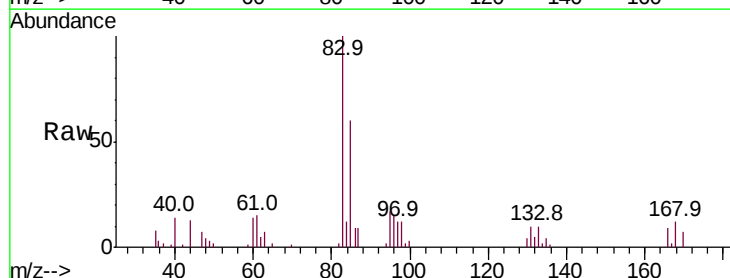
Tgt Ion: 83 Resp: 13794

Ion Ratio Lower Upper

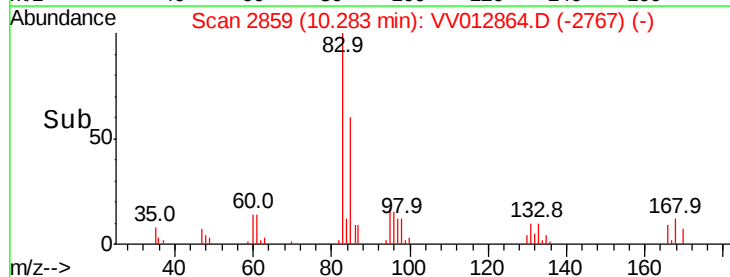
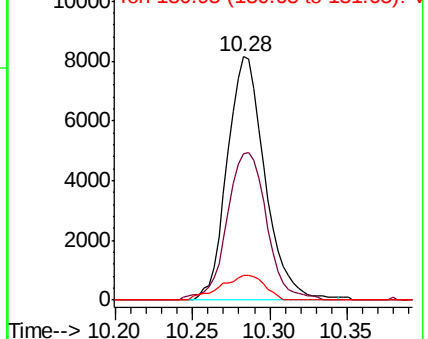
83 100

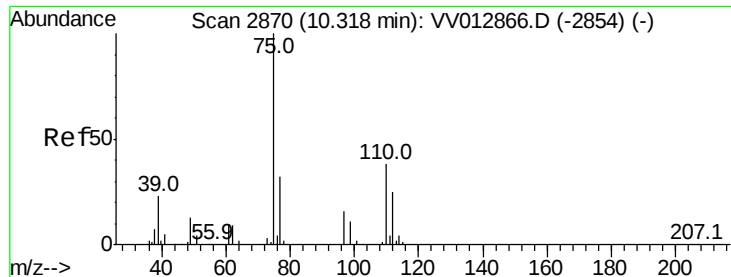
85 60.0 43.9 81.5

131 10.3 7.5 11.3



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.633 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

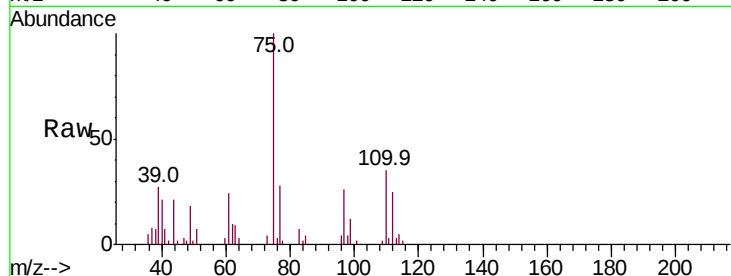
ClientSampleId :

Tot Ion: 75 Resp: 9680

Ion Ratio Lower Upper

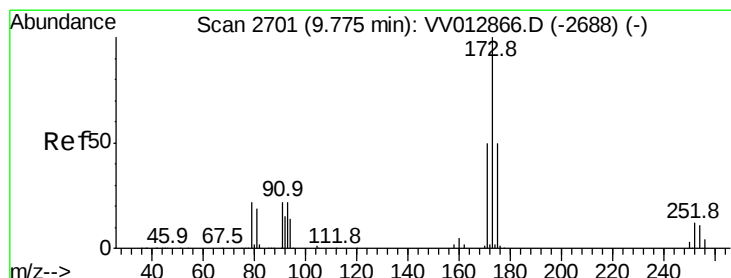
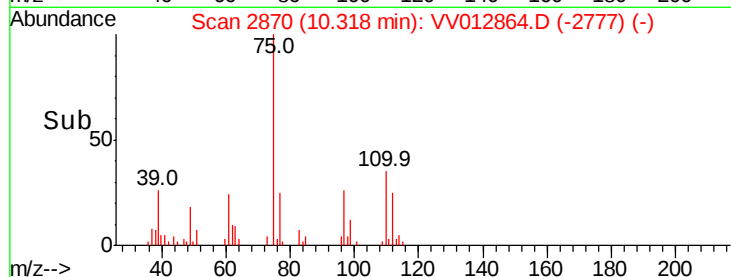
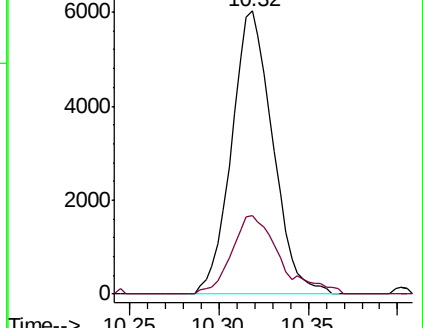
75 100

77 32.5 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VV012866.D (-2854) (-)

Ion 77.00 (76.70 to 77.70): VV012866.D (-2854) (-)



#61

Bromoform

Concen: 0.622 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

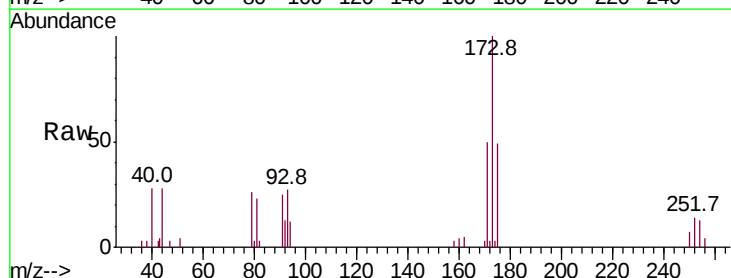
Tgt Ion: 173 Resp: 6313

Ion Ratio Lower Upper

173 100

175 49.7 39.2 58.8

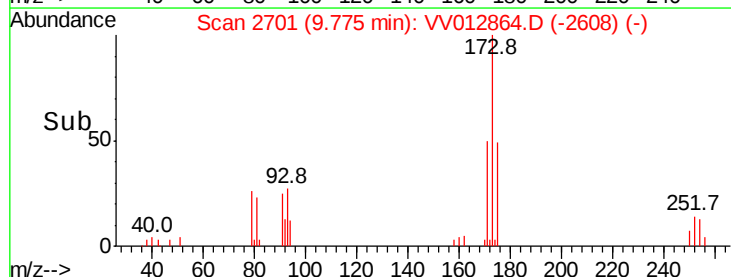
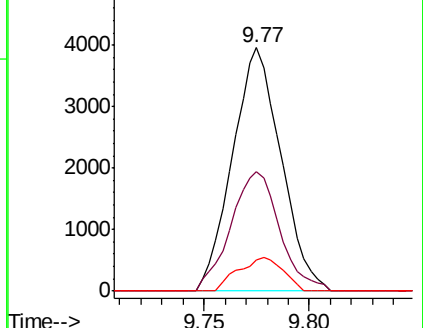
254 12.9 9.4 14.0

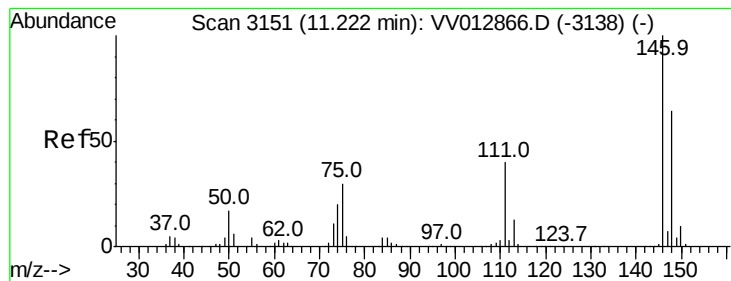


Abundance Ion 172.90 (172.60 to 173.60): VV012866.D (-2688) (-)

Ion 174.90 (174.60 to 175.60): VV012866.D (-2688) (-)

Ion 253.75 (253.45 to 254.45): VV012866.D (-2688) (-)





#62

1,3-Dichlorobenzene

Concen: 0.561 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

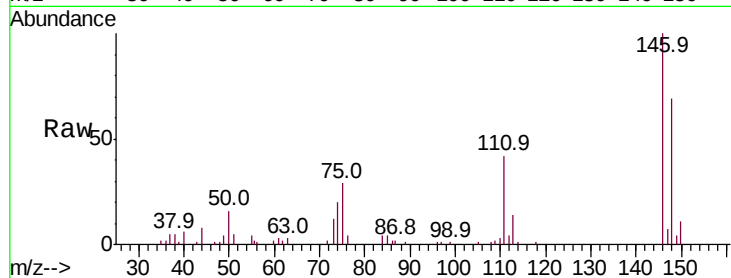
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146 Resp: 25580

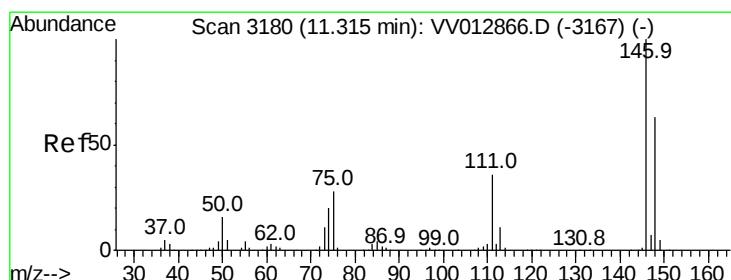
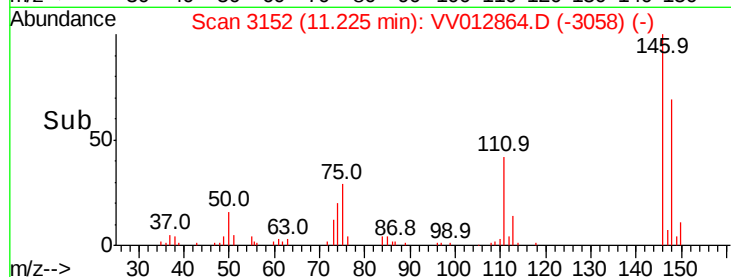
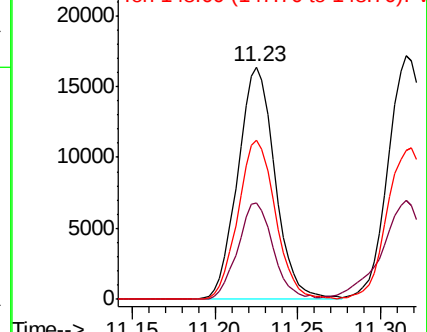
Ion	Ratio	Lower	Upper
146	100		
111	41.5	27.8	51.6
148	68.6	44.6	82.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.598 ug/L

RT: 11.32 min Scan# 3180

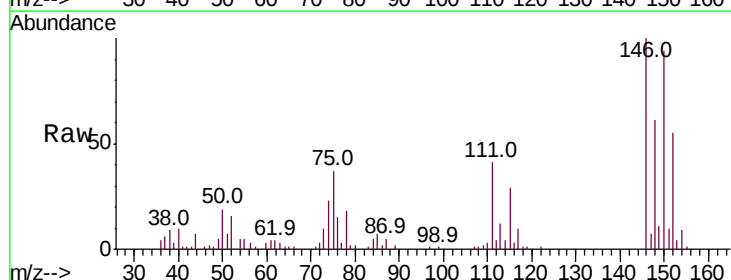
Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Tgt Ion:146 Resp: 28334

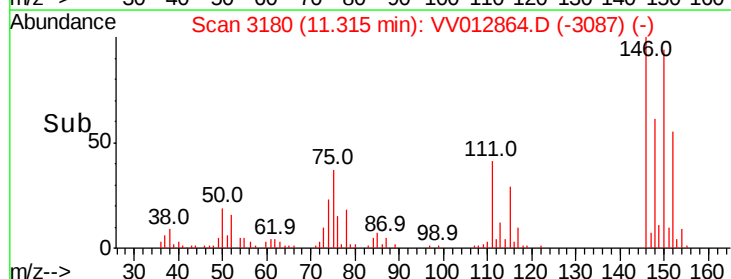
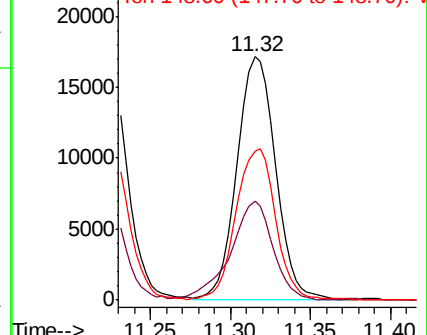
Ion	Ratio	Lower	Upper
146	100		
111	40.6	25.6	47.4
148	61.1	44.5	82.7

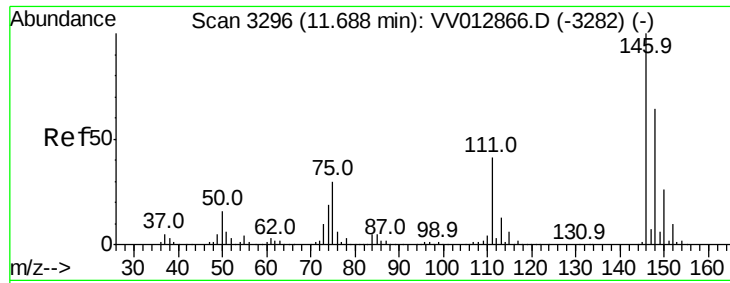


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.600 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

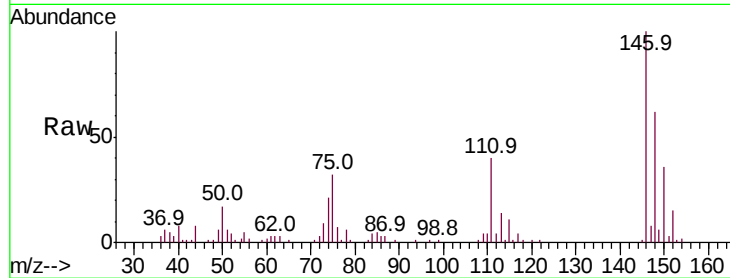
Tot Ion:146 Resp: 26662

Ion Ratio Lower Upper

146 100

111 39.8 32.8 49.2

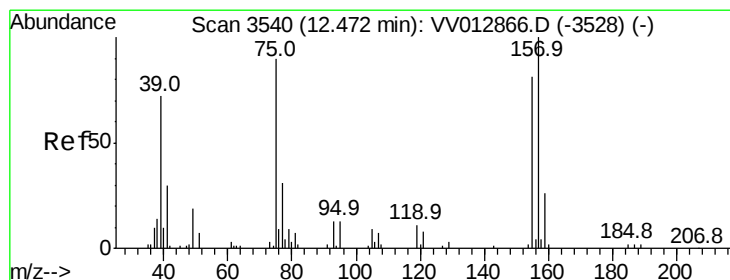
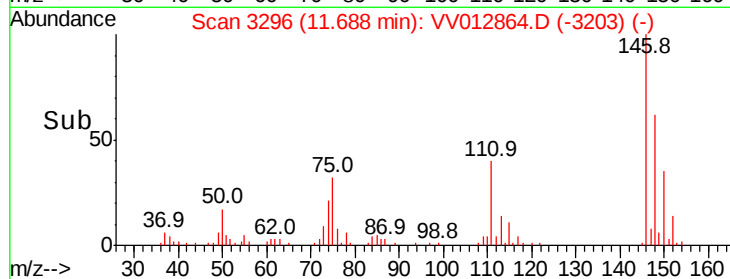
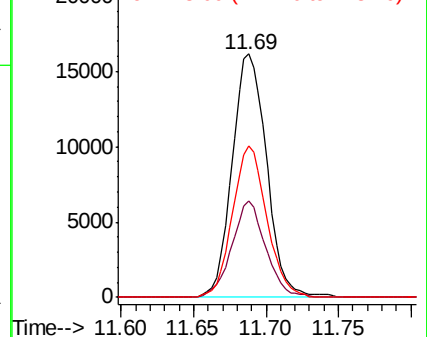
148 61.9 51.1 76.7



Abundance Ion 145.95 (145.65 to 146.65): 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: 0.864 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

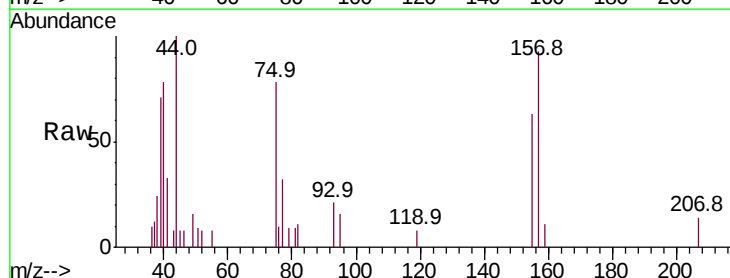
Tgt Ion: 75 Resp: 1997

Ion Ratio Lower Upper

75 100

155 80.1 72.4 108.6

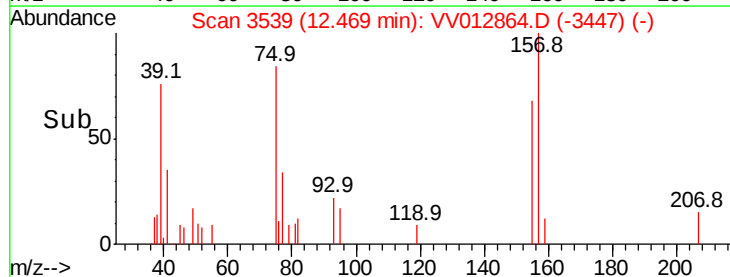
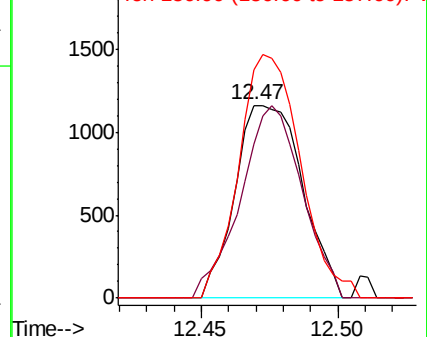
157 118.3 89.3 133.9

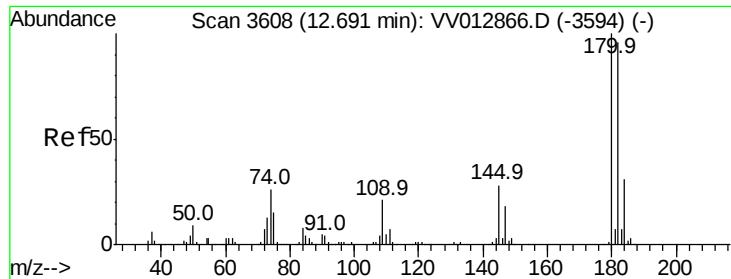


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

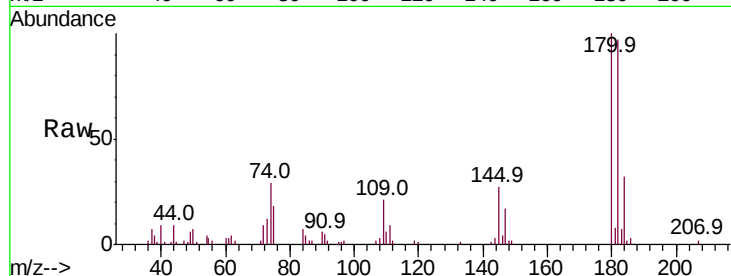




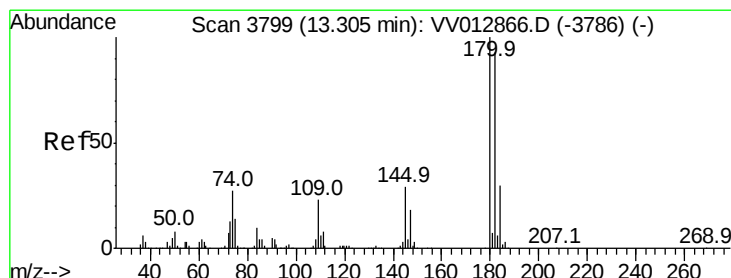
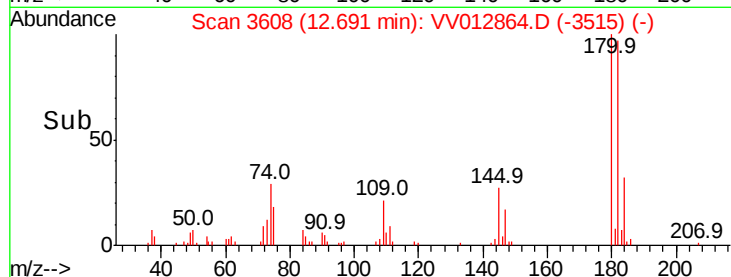
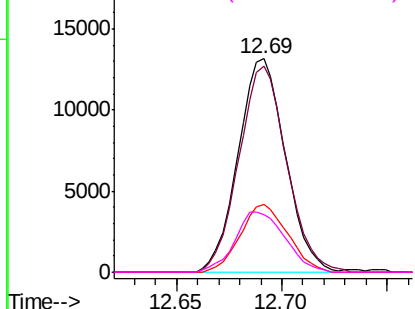
#67
 1,3,5-Trichlorobenzene
 Concen: 0.581 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	20532
Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.2	114.4
184	31.9	24.6	36.8
145	29.9	22.1	33.1

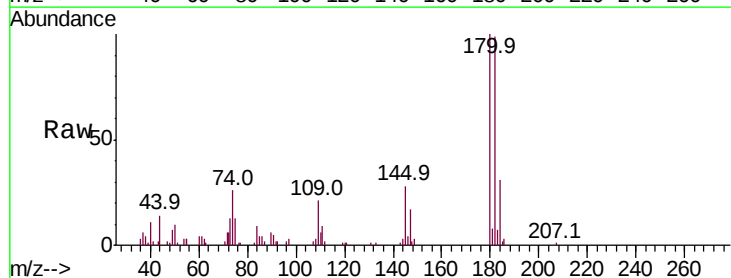


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

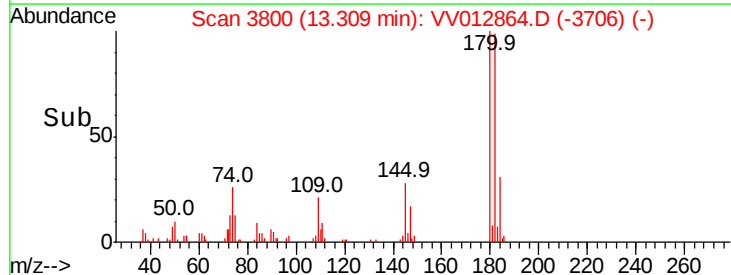
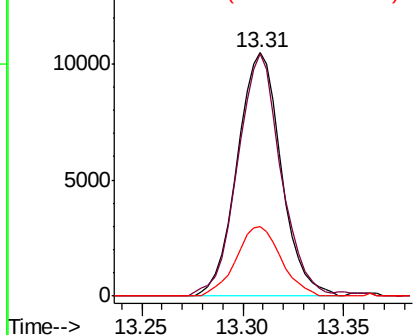


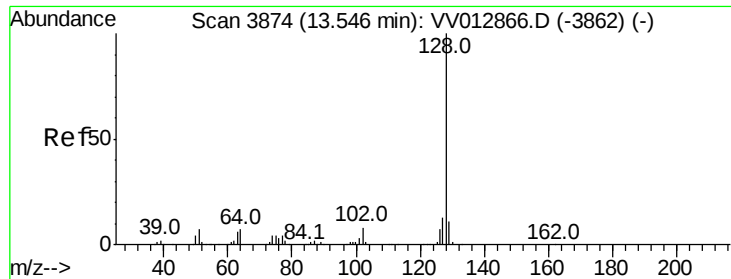
#68
 1,2,4-trichlorobenzene
 Concen: 0.598 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012864.D
 Acq: 17 Sep 2019 15:23

Tgt Ion:	180	Resp:	16016
Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.8	113.6
145	29.1	22.9	34.3



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.546 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

Instrument :

MSVOA_V

ClientSampleId :

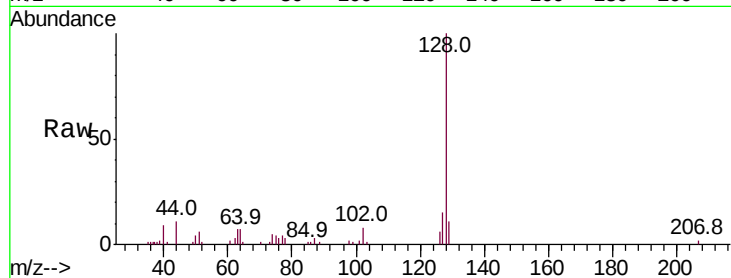
Tot Ion:128 Resp: 21219

Ion Ratio Lower Upper

128 100

129 12.0 8.9 13.3

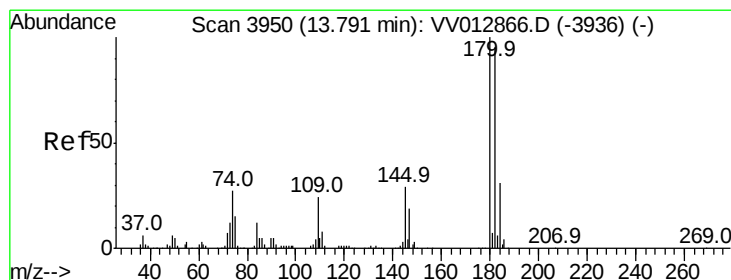
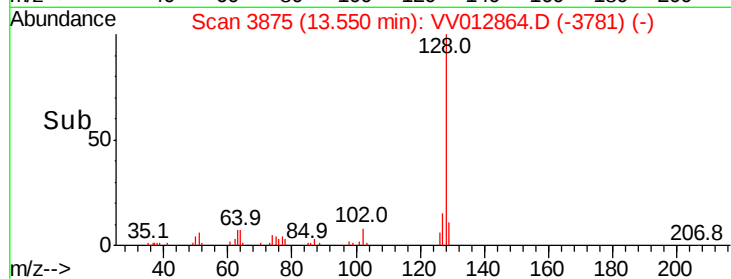
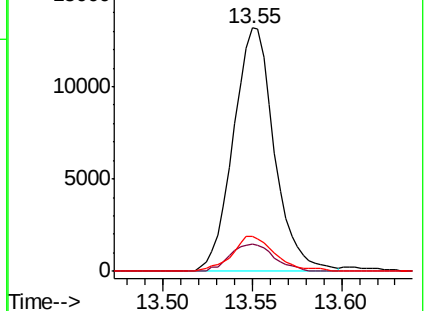
127 14.8 10.5 15.7



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: 0.599 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012864.D

Acq: 17 Sep 2019 15:23

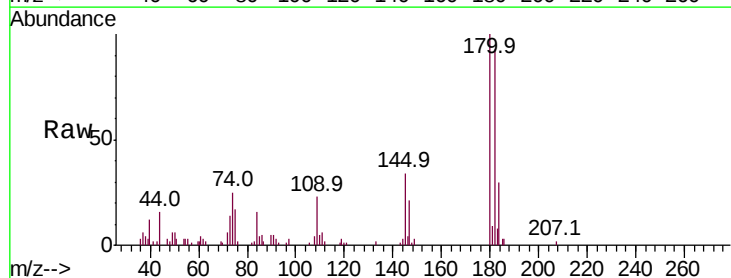
Tgt Ion:180 Resp: 15645

Ion Ratio Lower Upper

180 100

182 92.7 76.1 114.1

145 30.8 23.7 35.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

