

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100118\
 Data File : VV007989.D
 Acq On : 01 Oct 2018 11:29
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 02 02:53:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	107673	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	101501	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	56039	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20400	3.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.60%
7) Chloroethane-d5	1.59	69	19930	4.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.00%
11) 1,1-Dichloroethene-d2	2.14	63	50448	3.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	77.40%
20) 2-Butanone-d5	3.97	46	82078	47.27	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.54%
24) Chloroform-d	4.41	84	61530	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
26) 1,2-Dichloroethane-d4	5.09	65	30467	4.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.20%
32) Benzene-d6	5.10	84	110353	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
36) 1,2-Dichloropropane-d6	6.12	67	35157	4.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.60%
41) Toluene-d8	7.36	98	109782	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
43) trans-1,3-Dichloropropene-	7.67	79	13733	4.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.80%
46) 2-Hexanone-d5	8.14	63	63494	48.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.26%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	28019	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	46611	4.30	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	43299	4.794	ug/L 99
3) Chloromethane	1.25	50	36328	4.521	ug/L 99
5) Vinyl chloride	1.33	62	38416	4.466	ug/L 97
6) Bromomethane	1.54	94	25856	4.873	ug/L 96
8) Chloroethane	1.60	64	23849	4.597	ug/L 99
9) Trichlorofluoromethane	1.78	101	64368	4.584	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	36946	4.639	ug/L 99
12) 1,1-Dichloroethene	2.15	96	31970	4.492	ug/L 87
13) Acetone	2.22	43	52057	41.153	ug/L 100
14) Carbon disulfide	2.32	76	88987	4.612	ug/L 99
15) Methyl Acetate	2.47	43	12481	3.858	ug/L 100
16) Methylene chloride	2.54	84	33764	4.269	ug/L 96
17) Methyl tert-butyl Ether	2.81	73	76518	4.351	ug/L 100
18) trans-1,2-Dichloroethene	2.79	96	34771	4.432	ug/L 99
19) 1,1-Dichloroethane	3.23	63	62366	4.659	ug/L 98
21) 2-Butanone	4.05	43	87615	43.474	ug/L 99
22) cis-1,2-Dichloroethene	3.97	96	38579	4.856	ug/L 96

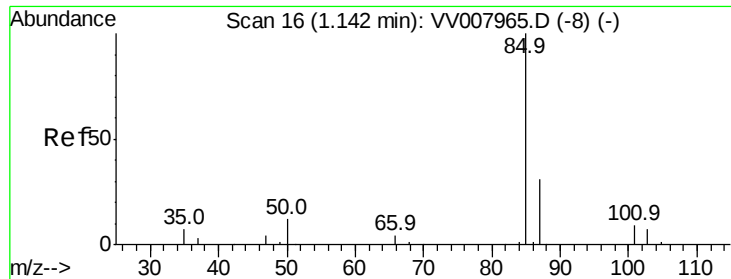
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100118\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	16884	4.887	uq/L	97
25) Chloroform	4.43	83	68196	4.710	uq/L	99
27) 1,2-Dichloroethane	5.19	62	40088	4.303	uq/L	97
29) 1,1,1-Trichloroethane	4.66	97	60730	4.976	uq/L	98
30) Cyclohexane	4.73	56	55058	4.799	uq/L	99
31) Carbon tetrachloride	4.88	117	56257	5.228	uq/L	97
33) Benzene	5.15	78	145096	4.992	uq/L	100
34) Trichloroethene	5.96	95	38936	4.679	uq/L	97
35) Methylcyclohexane	6.18	83	62075	4.974	uq/L	99
37) 1,2-Dichloropropane	6.23	63	37175	5.007	uq/L	100
38) Bromodichloromethane	6.56	83	45135	5.084	uq/L	99
39) cis-1,3-Dichloropropene	7.08	75	50387	5.073	uq/L	98
40) 4-Methyl-2-pentanone	7.28	43	210664	45.204	uq/L	99
42) Toluene	7.43	91	158908	5.021	uq/L	99
44) trans-1,3-Dichloropropene	7.70	75	40954	4.960	uq/L	98
45) 1,1,2-Trichloroethane	7.89	97	24979	4.662	uq/L	98
47) Tetrachloroethene	8.02	164	37544	4.868	uq/L	97
48) 2-Hexanone	8.19	43	147638	45.549	uq/L	98
49) Dibromochloromethane	8.30	129	32397	5.296	uq/L	96
50) 1,2-Dibromoethane	8.40	107	24491	5.000	uq/L	100
51) Chlorobenzene	8.93	112	107072	4.897	uq/L	98
52) Ethylbenzene	9.06	91	174421	4.940	uq/L	100
53) m,p-xylene	9.19	106	67485	5.019	uq/L	98
54) o-xylene	9.59	106	64279	4.950	uq/L	97
55) Styrene	9.61	104	109562	4.940	uq/L	99
56) Isopropylbenzene	9.98	105	175765	4.997	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	29754	4.728	uq/L	99
59) 1,2,3-Trichloropropane	10.32	75	21698	4.697	uq/L	98
61) Bromoform	9.78	173	17836	5.300	uq/L	96
62) 1,3-Dichlorobenzene	11.23	146	89686	4.848	uq/L	99
63) 1,4-Dichlorobenzene	11.32	146	92077	4.787	uq/L	99
65) 1,2-Dichlorobenzene	11.69	146	85316	4.892	uq/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	4344	4.890	uq/L	93
67) 1,3,5-Trichlorobenzene	12.70	180	79447	5.015	uq/L	99
68) 1,2,4-trichlorobenzene	13.31	180	61844	4.619	uq/L	100
69) Naphthalene	13.56	128	81635	4.359	uq/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	56711	4.677	uq/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.794 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

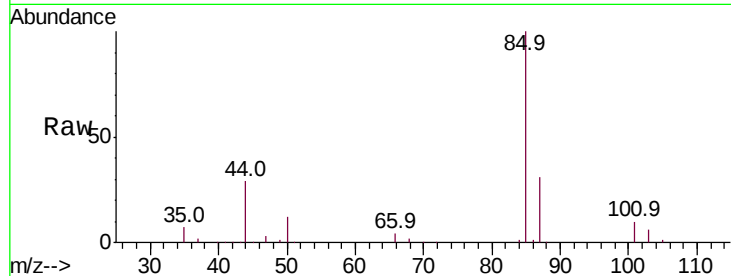
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 43299

Ion Ratio Lower Upper

85 100

87 31.1 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VV007965.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV007965.D (-8) (-)

1.14

50000

40000

30000

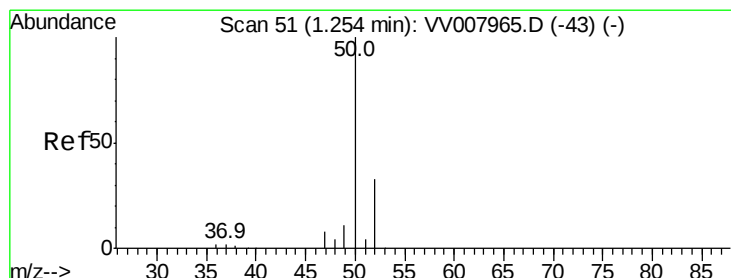
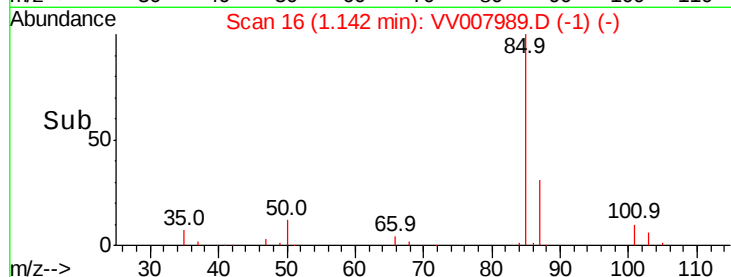
20000

10000

0

Time-->

1.10 1.15 1.20



#3

Chloromethane

Concen: 4.521 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV007989.D

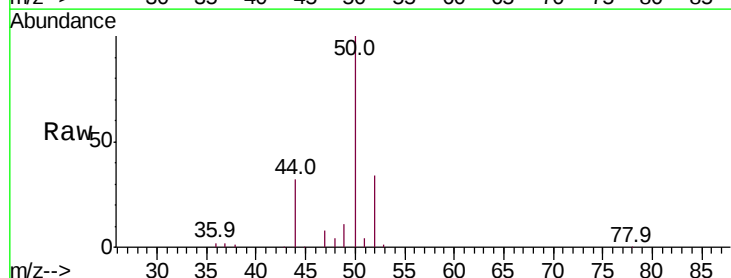
Acq: 01 Oct 2018 11:29

Tgt Ion: 50 Resp: 36328

Ion Ratio Lower Upper

50 100

52 33.9 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV007965.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV007965.D (-43) (-)

1.25

30000

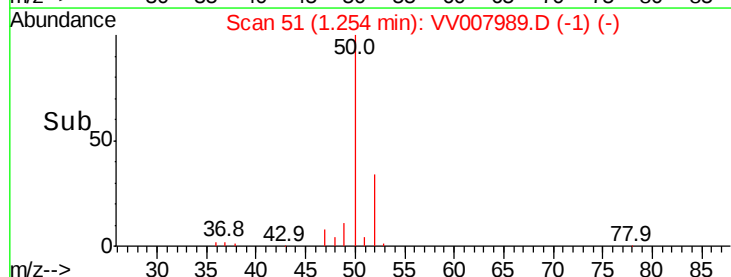
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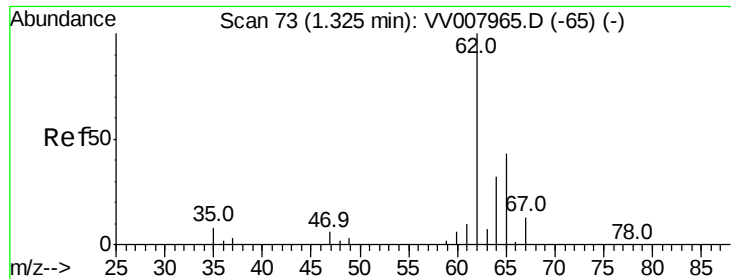
10000

0

Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 4.466 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

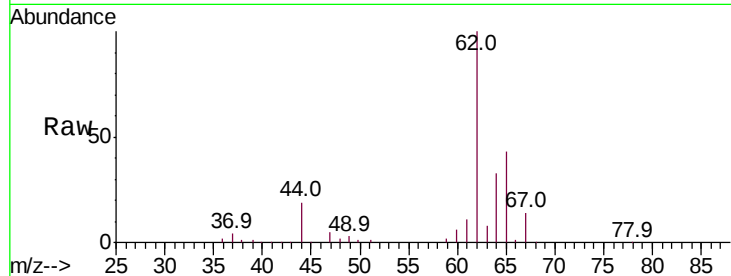
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 38416

Ion Ratio Lower Upper

62 100

64 32.6 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV007965.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV007989.D (-1) (-)

1.33

40000

30000

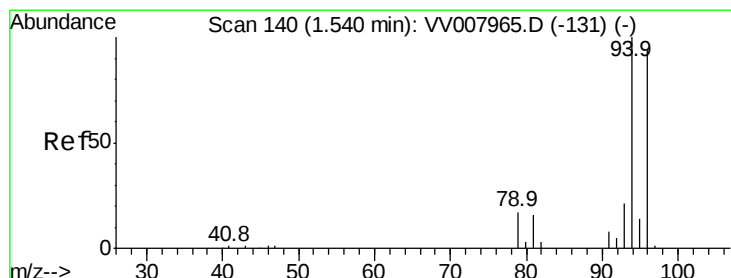
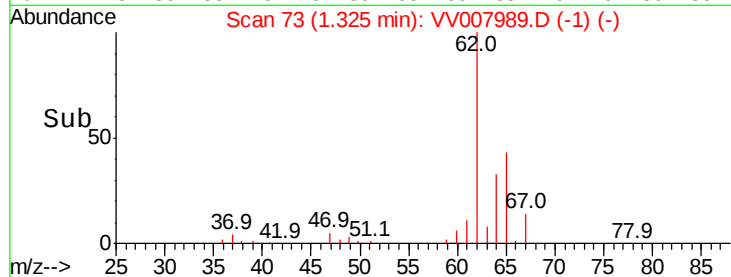
20000

10000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 4.873 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV007989.D

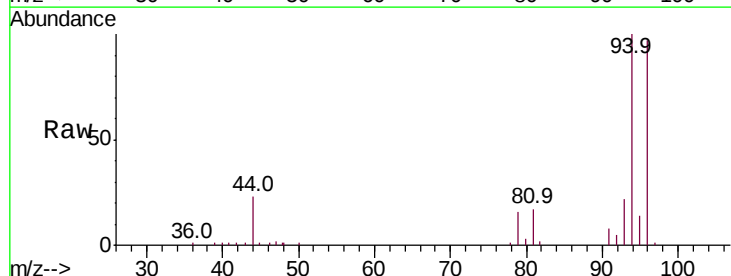
Acq: 01 Oct 2018 11:29

Tgt Ion: 94 Resp: 25856

Ion Ratio Lower Upper

94 100

96 96.6 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV007965.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV007989.D (-47) (-)

1.54

25000

20000

15000

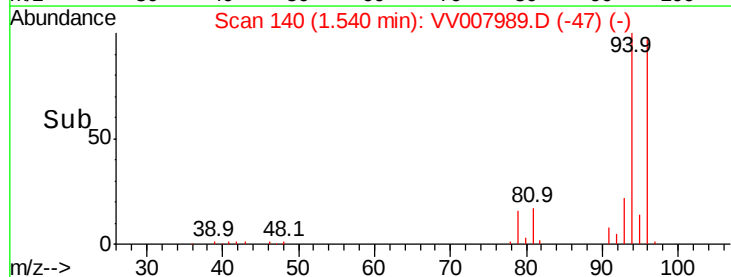
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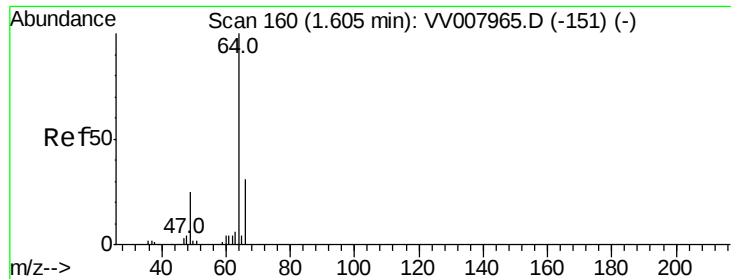
5000

0

1.50 1.55 1.60

Time-->

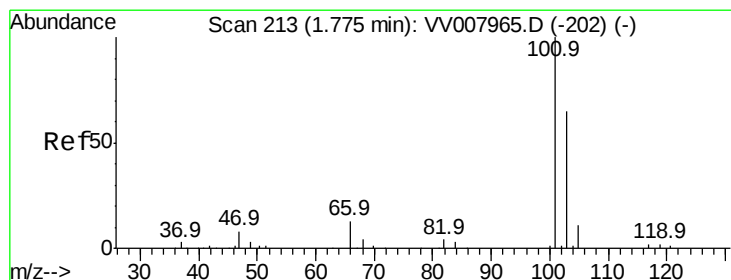
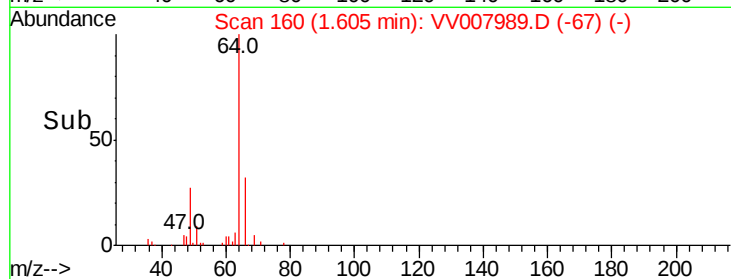
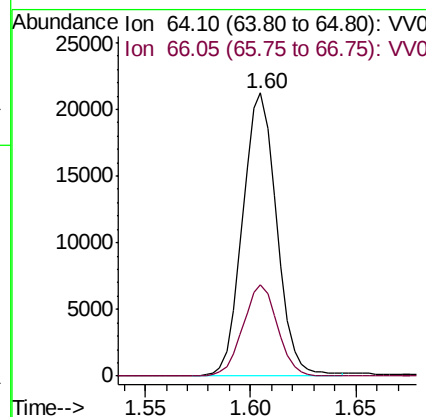
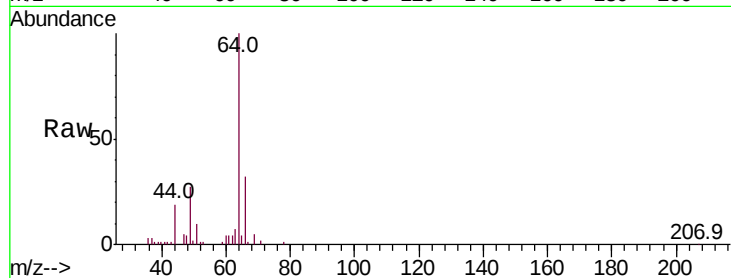




#8
Chloroethane
Concen: 4.597 ug/L
RT: 1.60 min Scan# 160
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

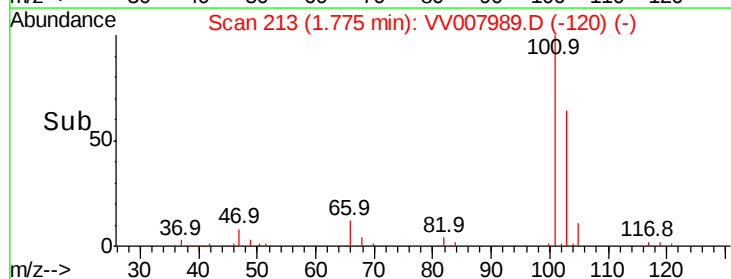
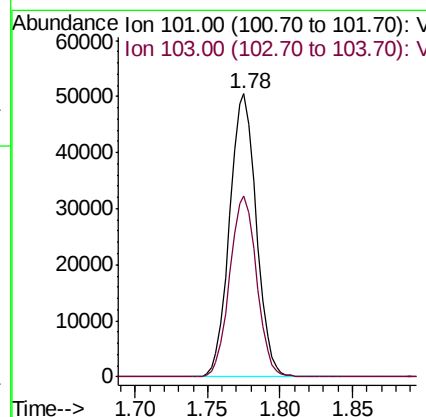
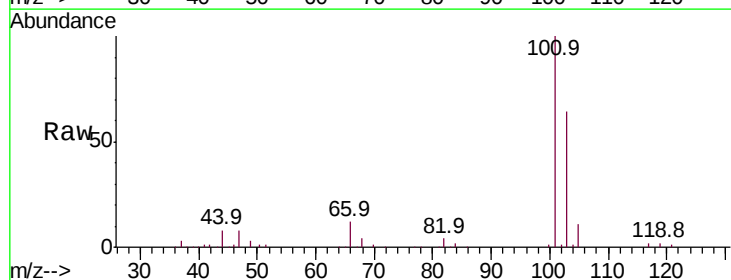
Instrument :
MSVOA_V
ClientSampleId :

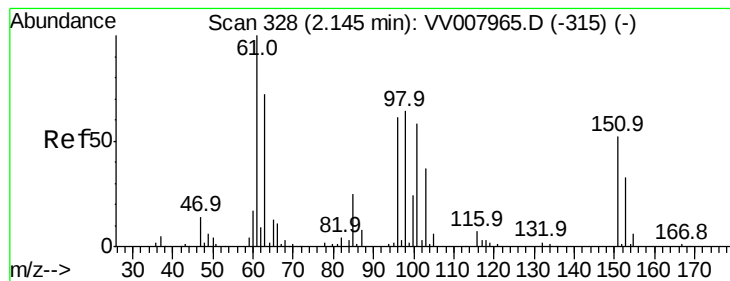
Tot Ion: 64 Resp: 23849
Ion Ratio Lower Upper
64 100
66 32.3 23.1 42.9



#9
Trichlorofluoromethane
Concen: 4.584 ug/L
RT: 1.78 min Scan# 213
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 101 Resp: 64368
Ion Ratio Lower Upper
101 100
103 64.4 51.5 77.3





#10

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

Concen: 4.639 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :

MSVOA_V

ClientSampled :

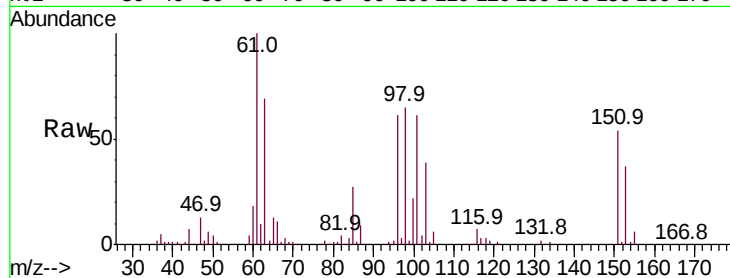
Tot Ion:101 Resp: 36946

Ion Ratio Lower Upper

101 100

85 43.0 34.7 52.1

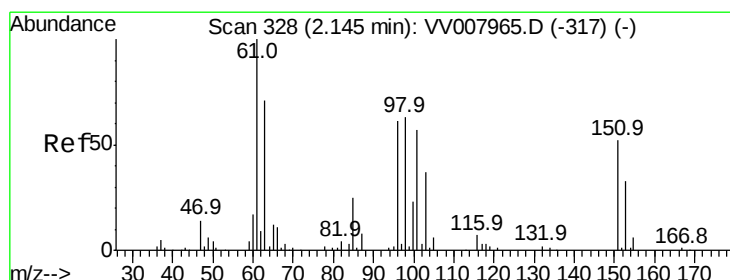
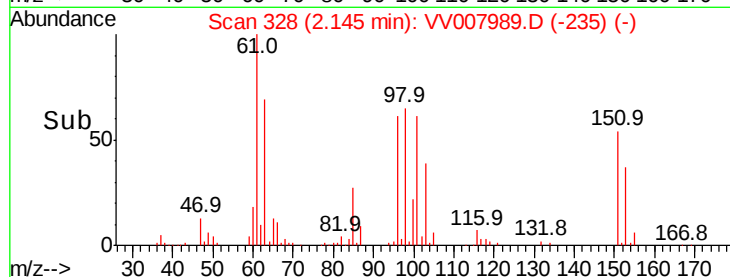
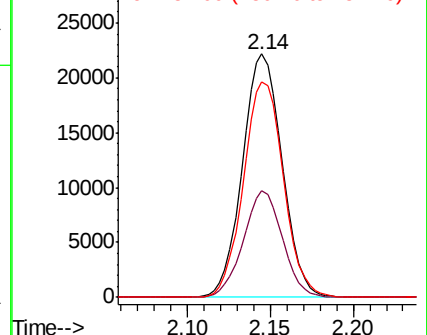
151 89.5 72.2 108.2



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: 4.492 ug/L

RT: 2.15 min Scan# 329

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

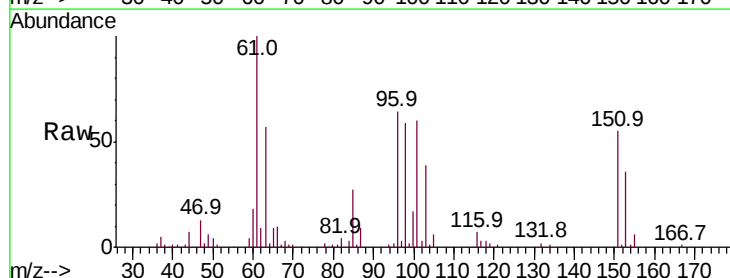
Tgt Ion: 96 Resp: 31970

Ion Ratio Lower Upper

96 100

61 157.4 114.1 211.9

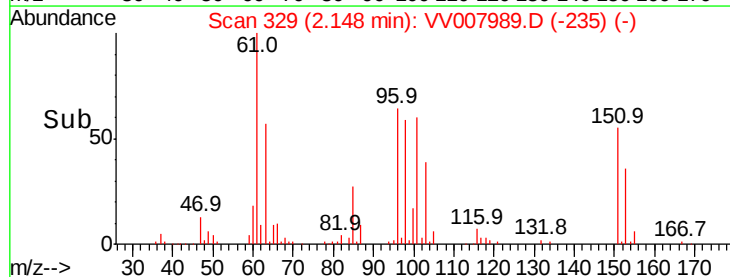
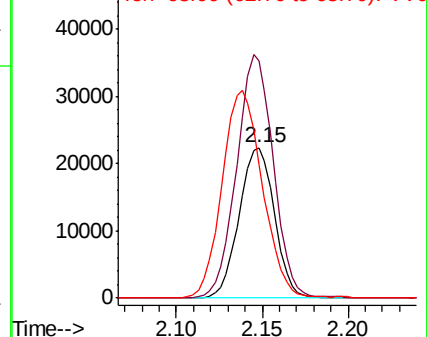
63 89.0 81.5 151.3

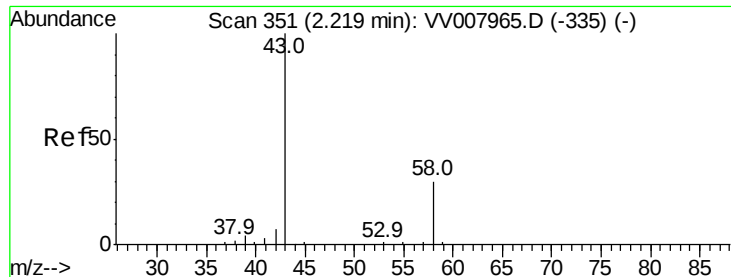


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 41.153 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

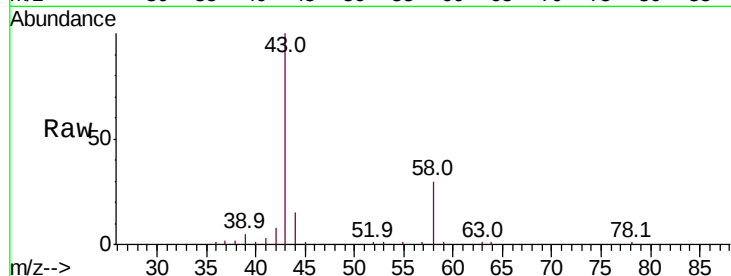
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 52057

Ion Ratio Lower Upper

43 100

58 31.0 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV007965.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV007965.D (-335) (-)

20000

15000

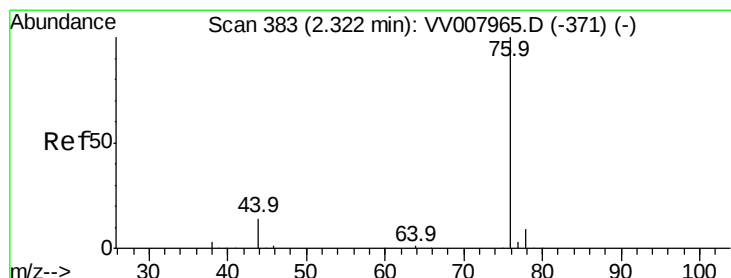
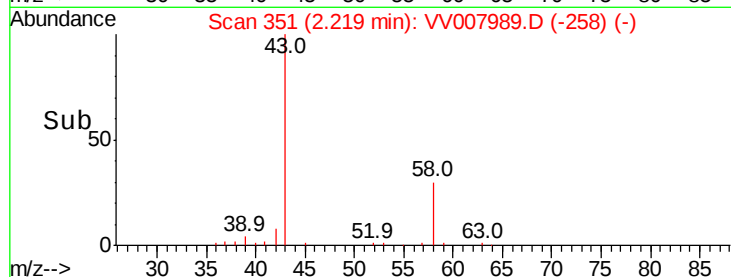
10000

5000

0

Time--> 2.10 2.20 2.30

2.22



#14

Carbon disulfide

Concen: 4.612 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV007989.D

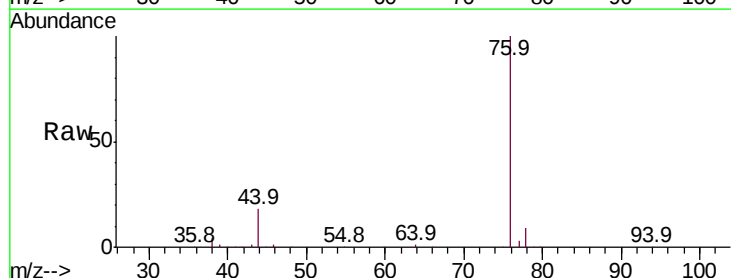
Acq: 01 Oct 2018 11:29

Tgt Ion: 76 Resp: 88987

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV007965.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV007965.D (-371) (-)

60000

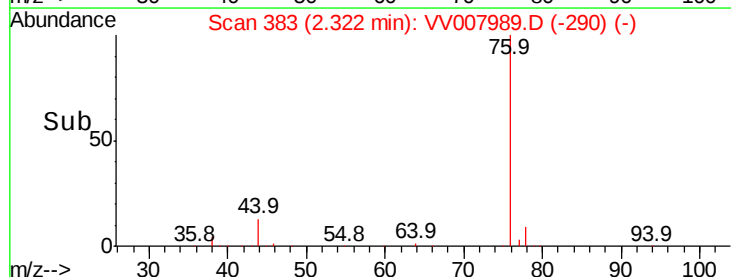
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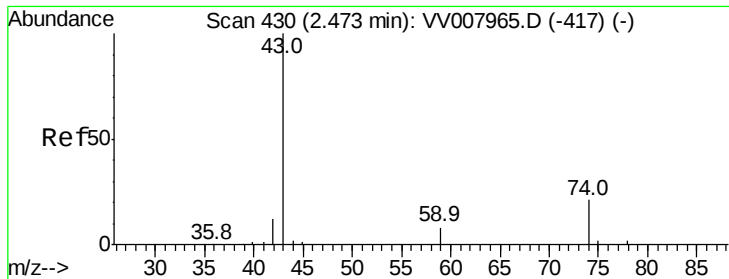
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Time--> 2.30 2.40

2.32

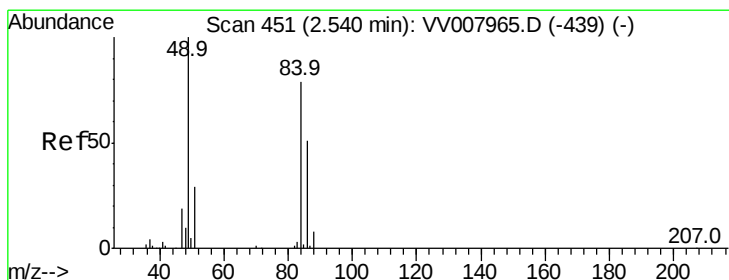
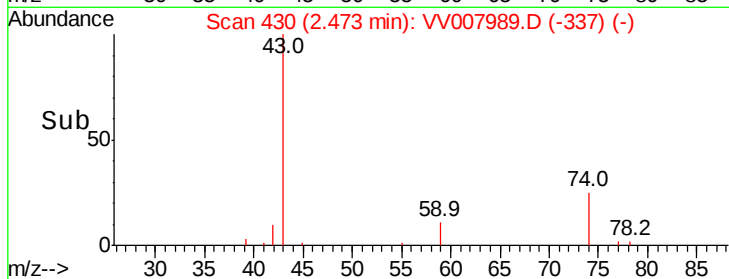
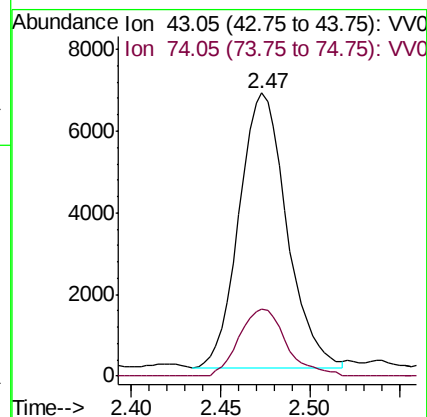
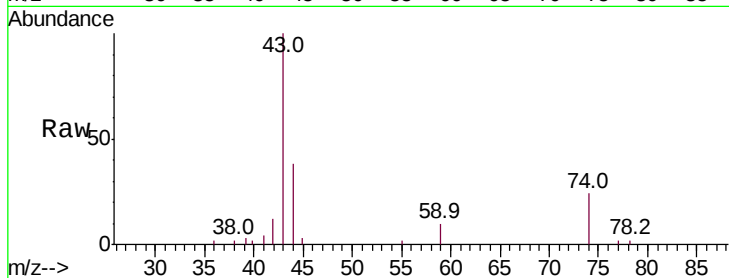




#15
Methyl Acetate
Concen: 3.858 ug/L
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

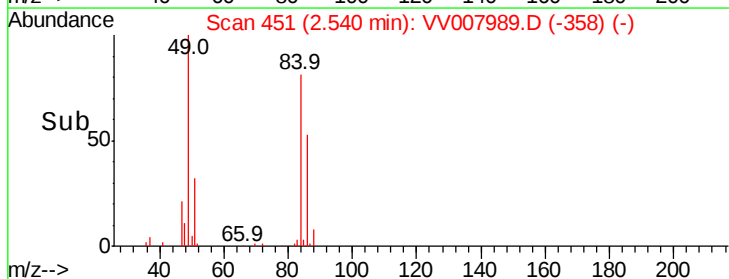
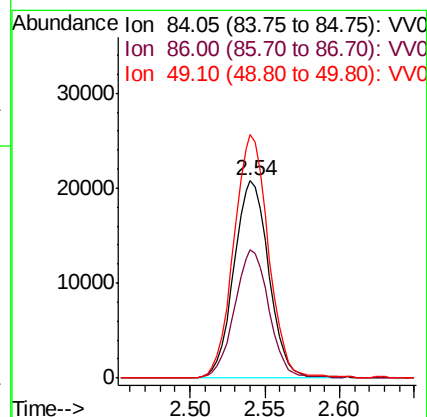
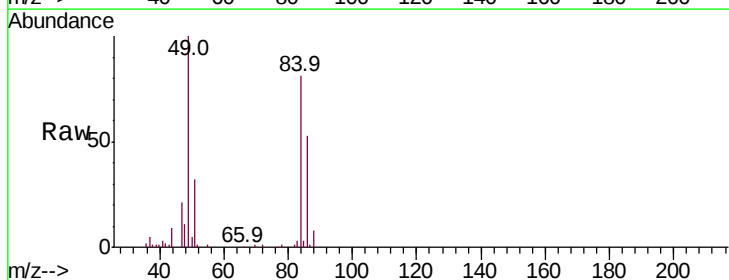
Instrument :
MSVOA_V
ClientSampleId :

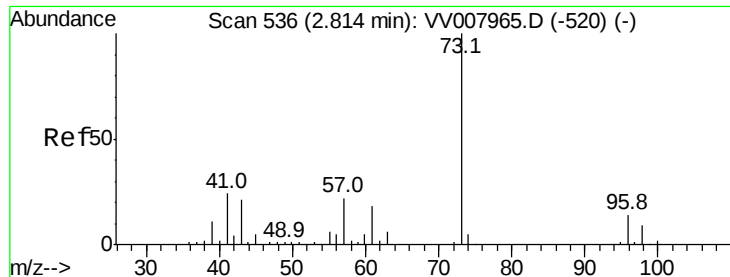
Tot Ion: 43 Resp: 12481
Ion Ratio Lower Upper
43 100
74 24.3 19.5 29.3



#16
Methylene chloride
Concen: 4.269 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 84 Resp: 33764
Ion Ratio Lower Upper
84 100
86 65.1 47.3 87.8
49 123.3 90.0 167.2

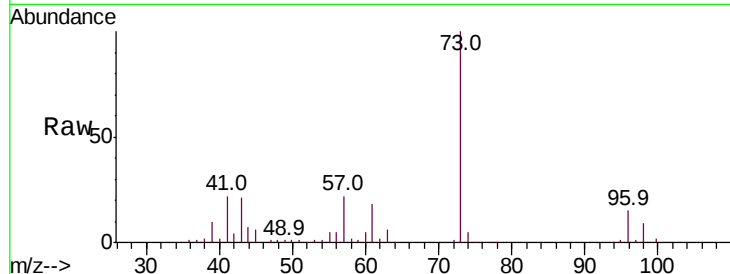




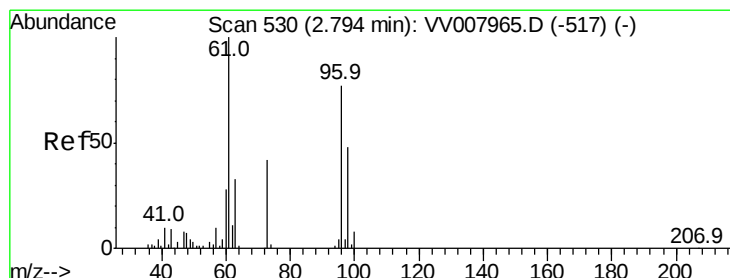
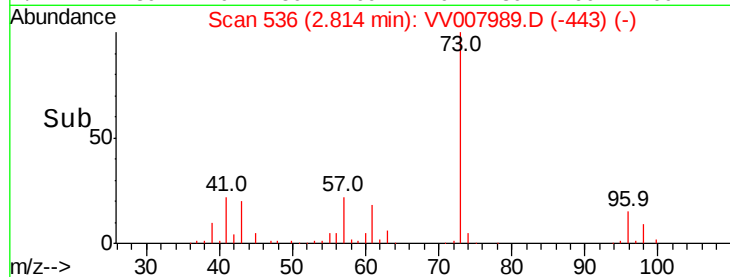
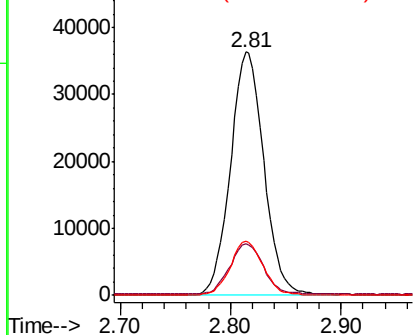
#17
Methvl tert-butvl Ether
Concen: 4.351 ug/L
RT: 2.81 min Scan# 536
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 76518
Ion Ratio Lower Upper
73 100
43 20.6 16.8 25.2
57 22.0 17.6 26.4

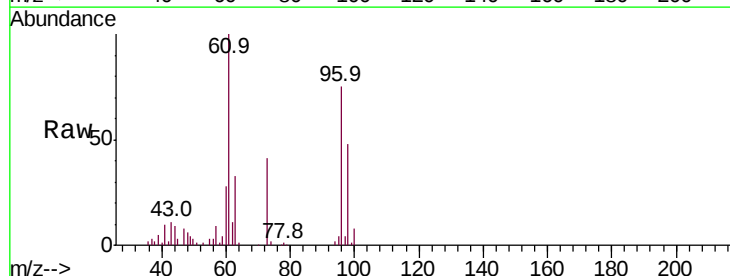


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

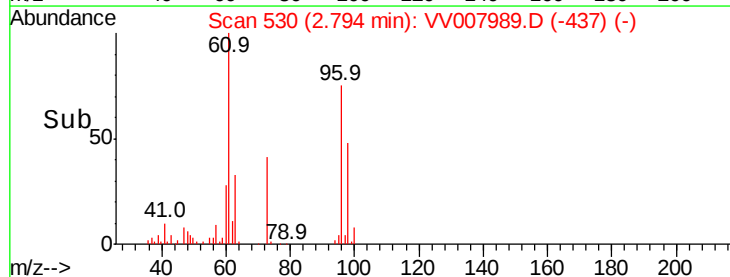
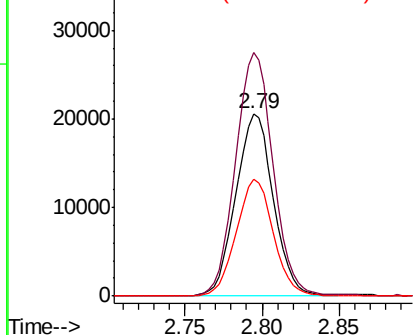


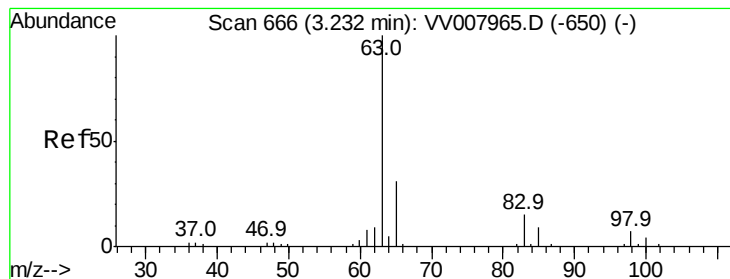
#18
trans-1,2-Dichloroethene
Concen: 4.432 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 96 Resp: 34771
Ion Ratio Lower Upper
96 100
61 133.6 94.2 175.0
98 64.2 44.9 83.5



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





#19

1,1-Dichloroethane

Concen: 4.659 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampleId :

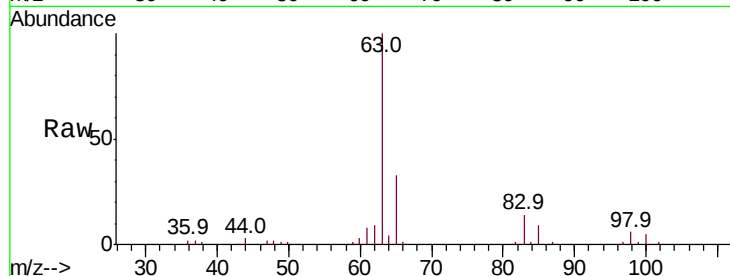
Tot Ion: 63 Resp: 62366

Ion Ratio Lower Upper

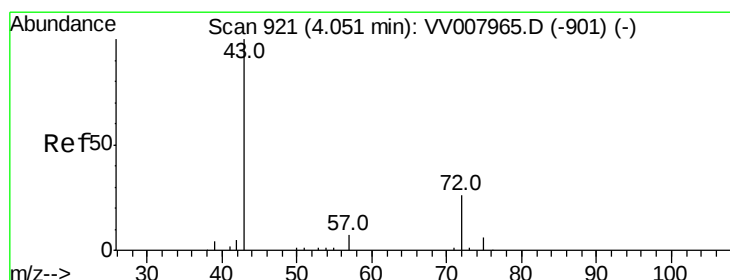
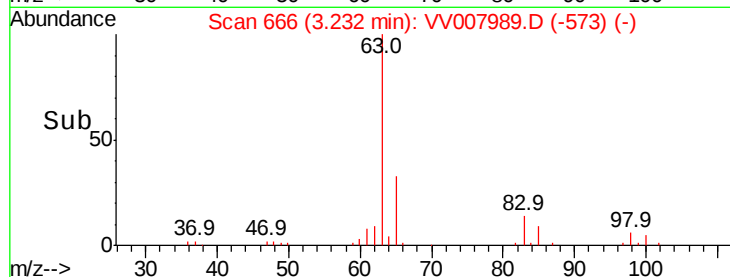
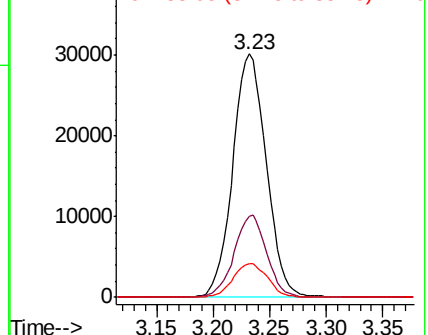
63 100

65 33.4 22.3 41.5

83 13.8 9.8 18.2



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: 43.474 ug/L

RT: 4.05 min Scan# 921

Delta R.T. 0.00 min

Lab File: VV007989.D

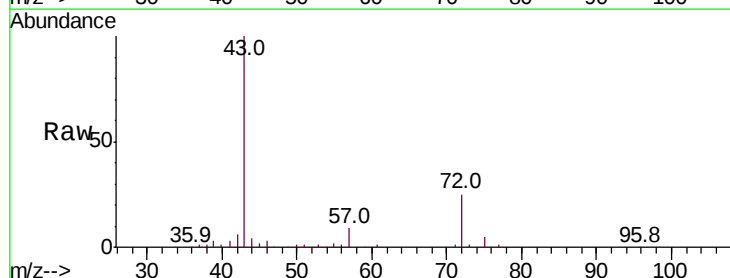
Acq: 01 Oct 2018 11:29

Tgt Ion: 43 Resp: 87615

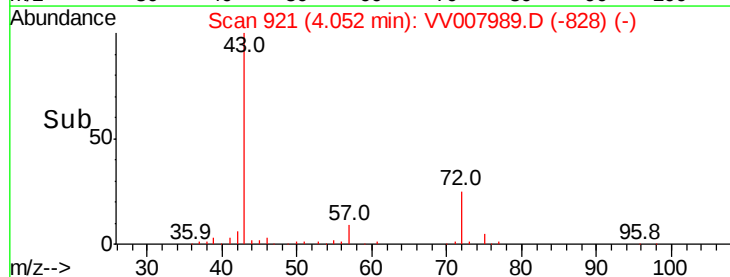
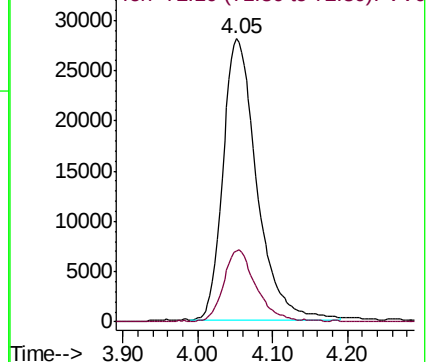
Ion Ratio Lower Upper

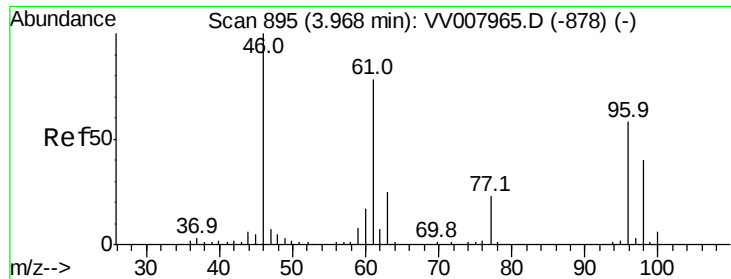
43 100

72 24.7 12.5 37.5



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



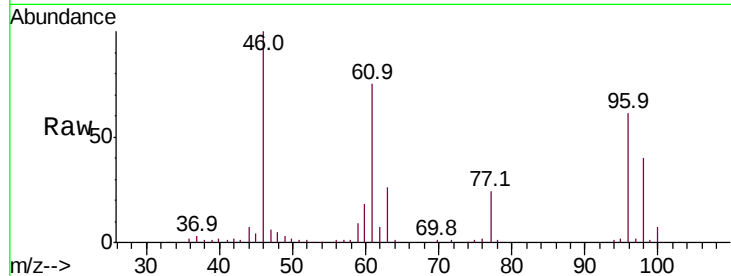


#22

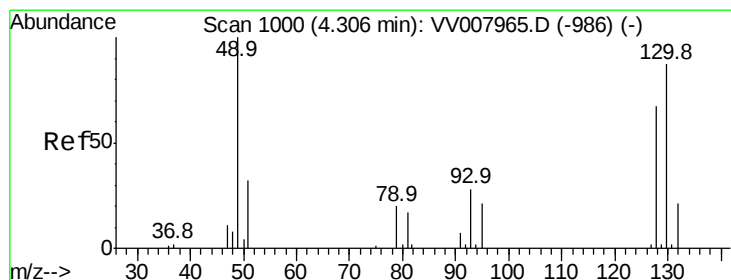
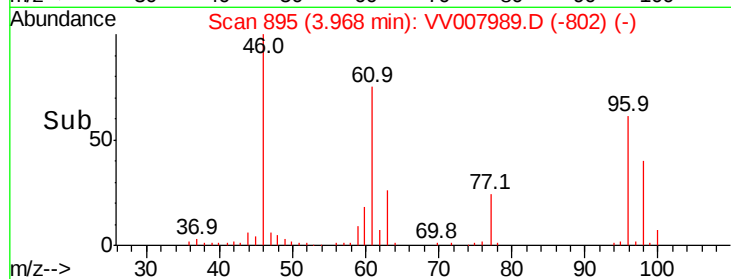
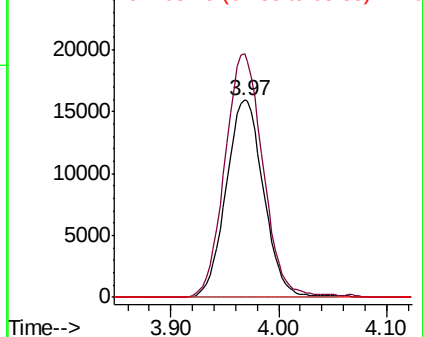
cis-1,2-Dichloroethene
Concen: 4.856 ug/L
RT: 3.97 min Scan# 895
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 96 Resp: 38579
Ion Ratio Lower Upper
96 100
61 123.4 89.5 166.1
68 0.0 0.0 0.0



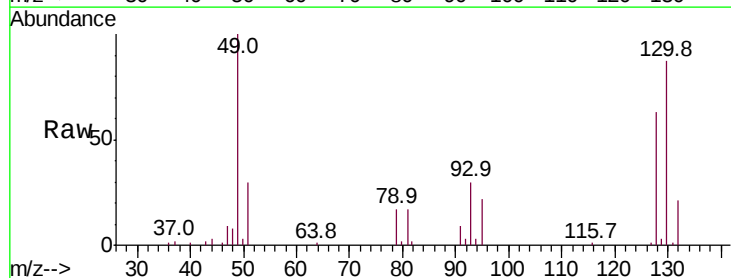
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



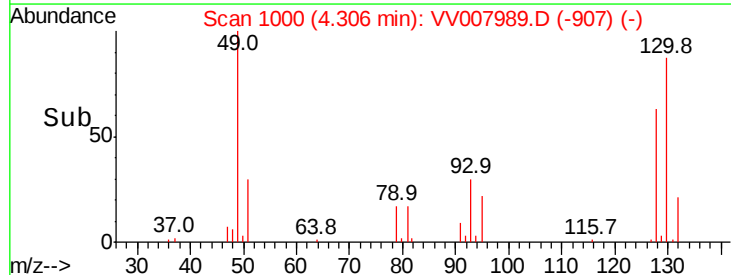
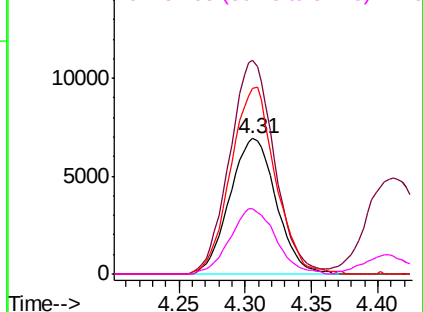
#23

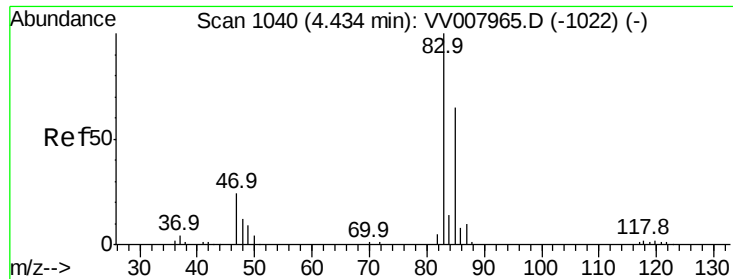
Bromochloromethane
Concen: 4.887 ug/L
RT: 4.31 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 128 Resp: 16884
Ion Ratio Lower Upper
128 100
49 157.7 112.8 209.4
130 137.1 92.3 171.5
51 47.8 38.4 57.6



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

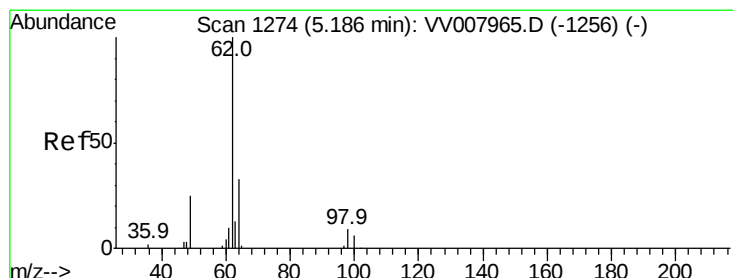
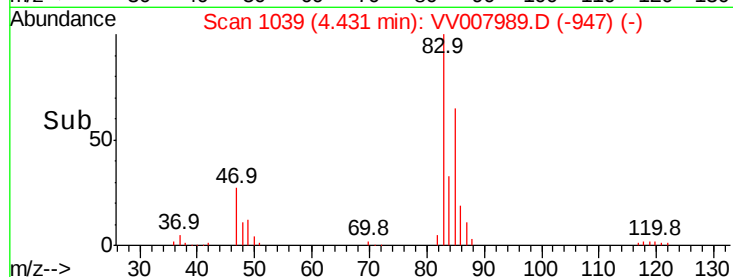
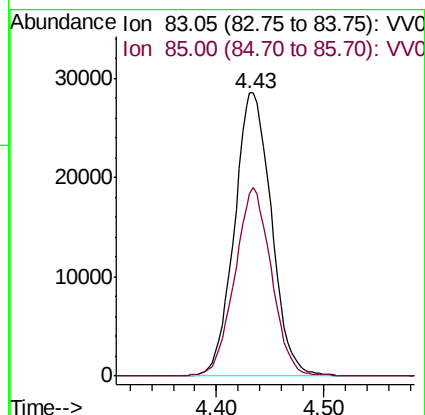
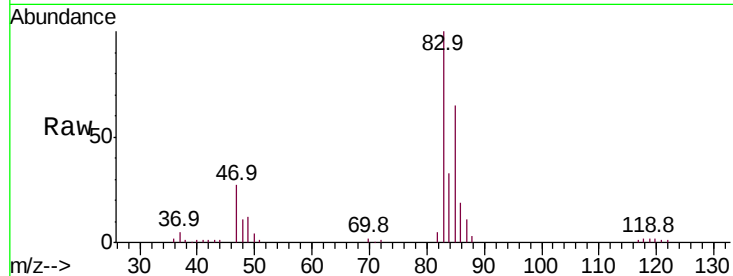




#25
Chloroform
Concen: 4.710 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

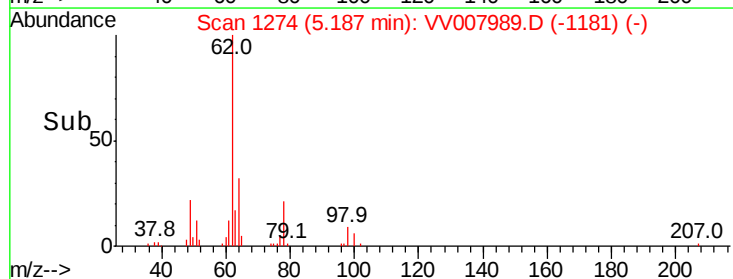
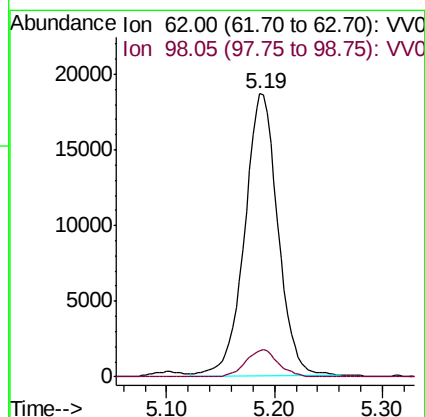
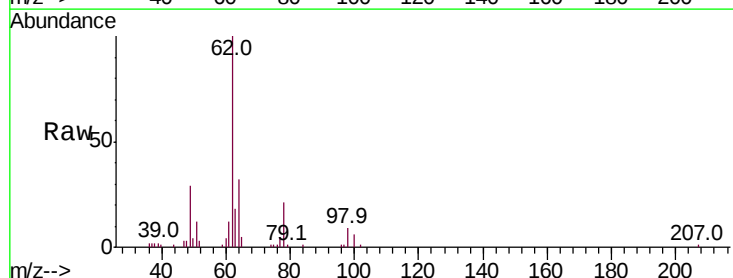
Instrument :
MSVOA_V
ClientSampleId :

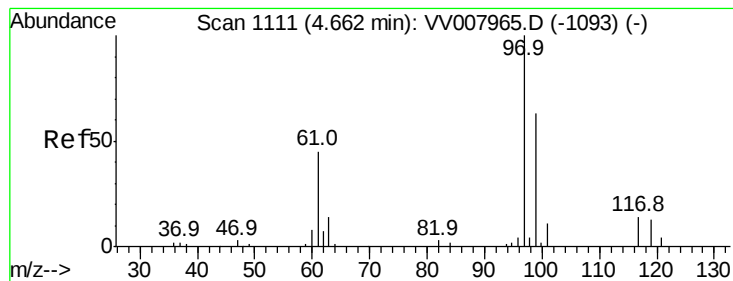
Tot Ion: 83 Resp: 68196
Ion Ratio Lower Upper
83 100
85 64.5 44.8 83.2



#27
1,2-Dichloroethane
Concen: 4.303 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 62 Resp: 40088
Ion Ratio Lower Upper
62 100
98 9.3 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 4.976 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampleId :

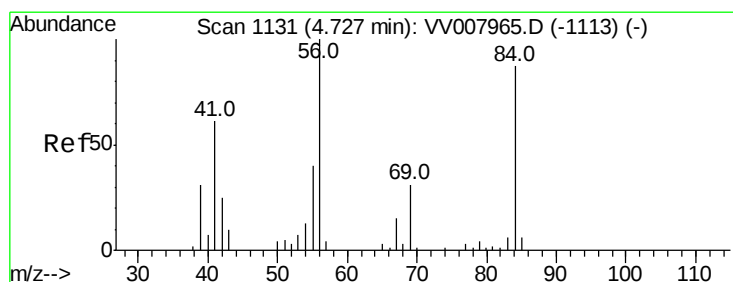
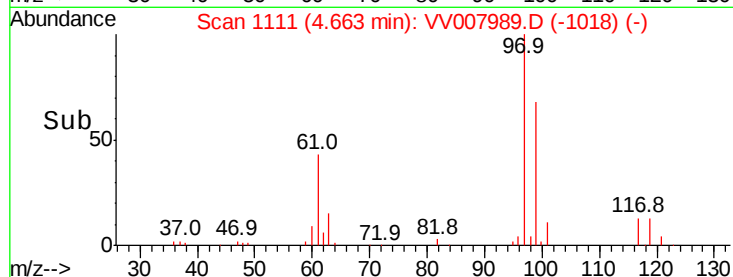
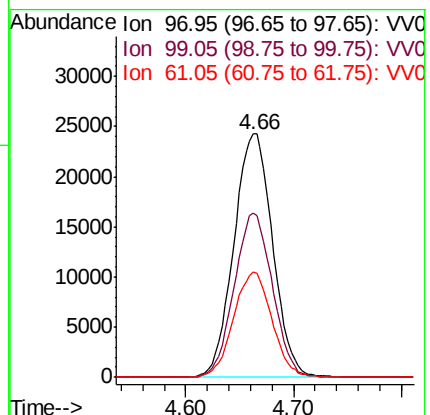
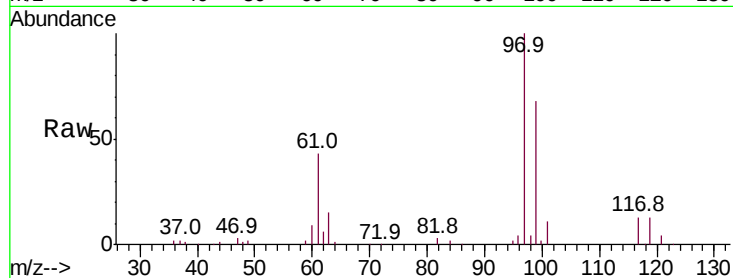
Tot Ion: 97 Resp: 60730

Ion Ratio Lower Upper

97 100

99 66.2 51.2 76.8

61 42.9 34.6 52.0



#30

Cyclohexane

Concen: 4.799 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

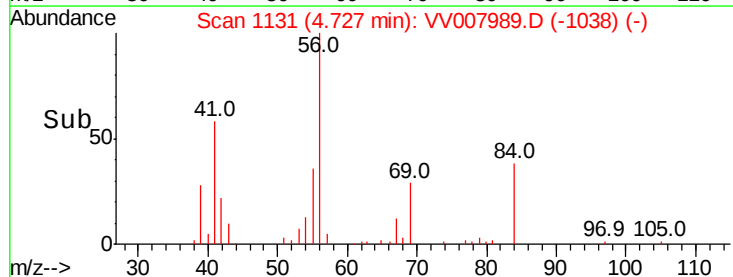
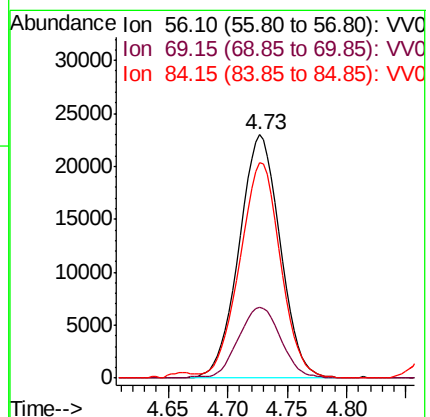
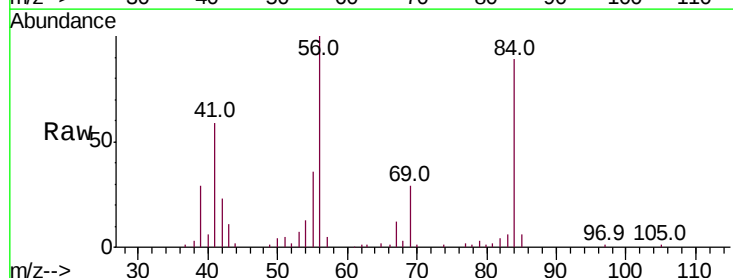
Tgt Ion: 56 Resp: 55058

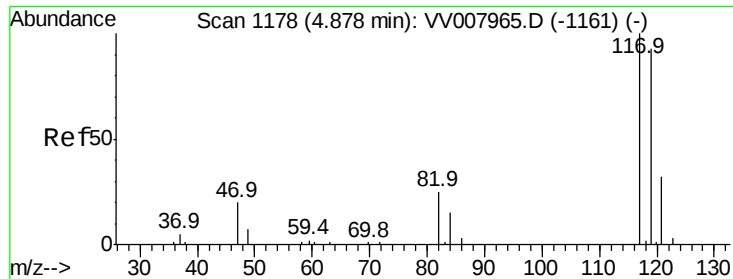
Ion Ratio Lower Upper

56 100

69 29.9 24.2 36.4

84 88.2 69.8 104.8

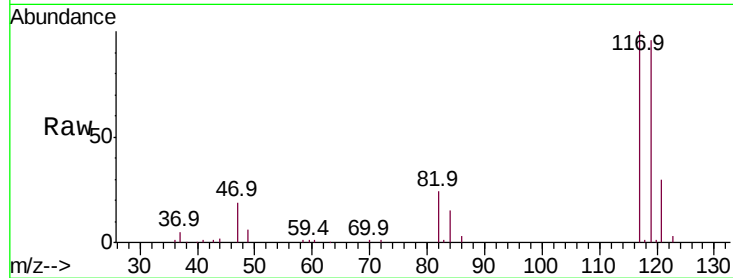




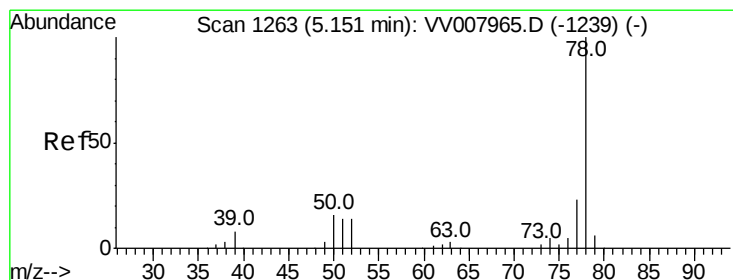
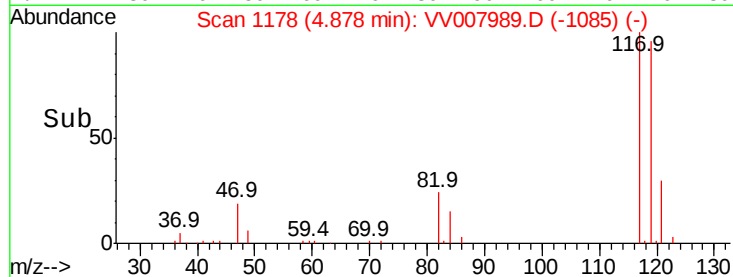
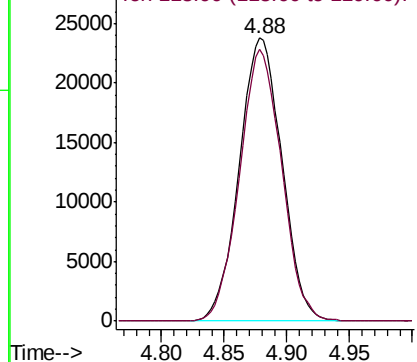
#31
Carbon tetrachloride
Concen: 5.228 ug/L
RT: 4.88 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampled :

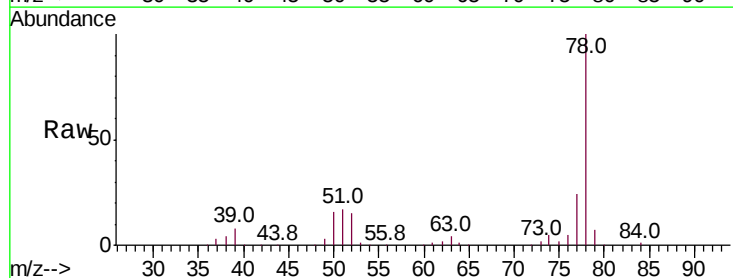
Tot Ion:117 Resp: 56257
Ion Ratio Lower Upper
117 100
119 94.6 77.8 116.8



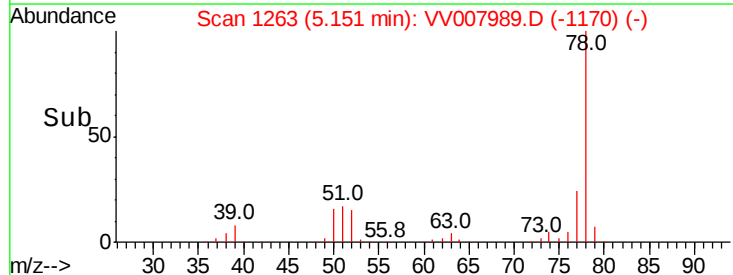
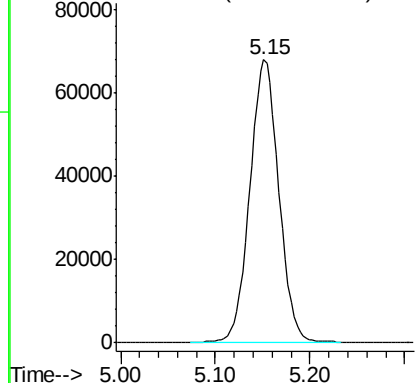
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

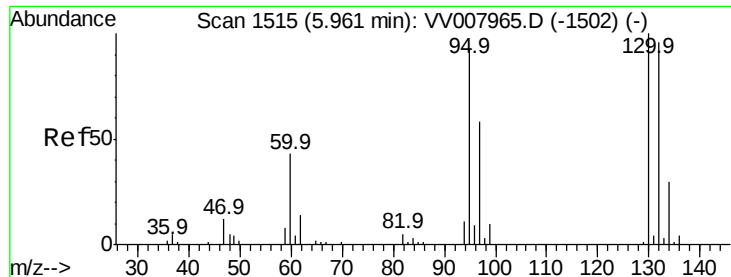


#33
Benzene
Concen: 4.992 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29
Tgt Ion: 78 Resp: 145096



Abundance Ion 78.10 (77.80 to 78.80): VV0

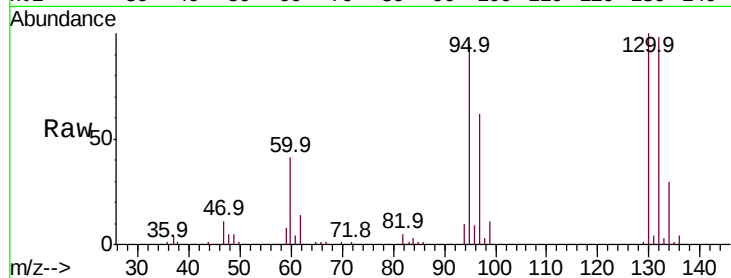




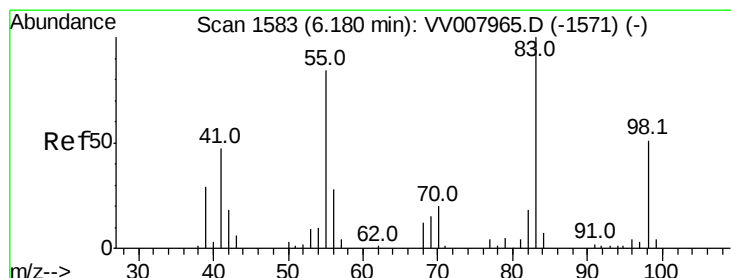
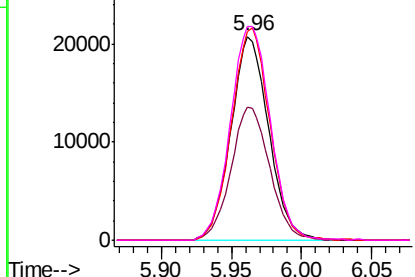
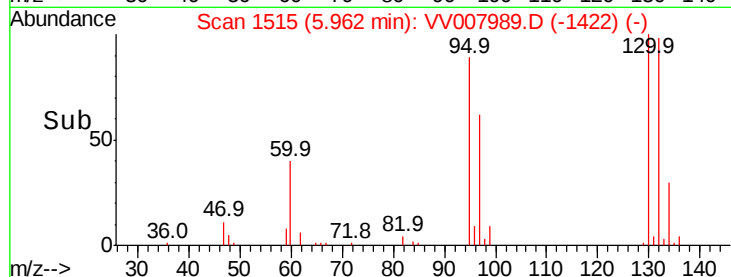
#34
 Trichloroethene
 Concen: 4.679 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 38936
 Ion Ratio Lower Upper
 95 100
 97 65.4 43.6 81.0
 132 102.6 69.9 129.9
 130 104.7 71.7 133.3

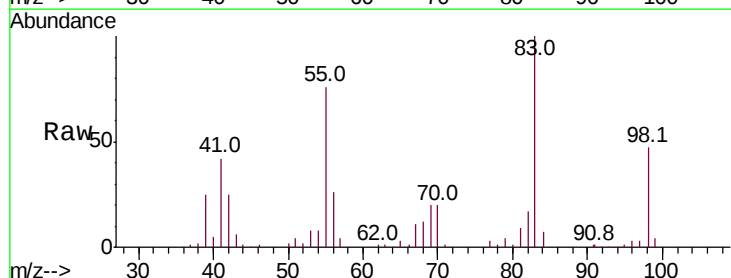


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

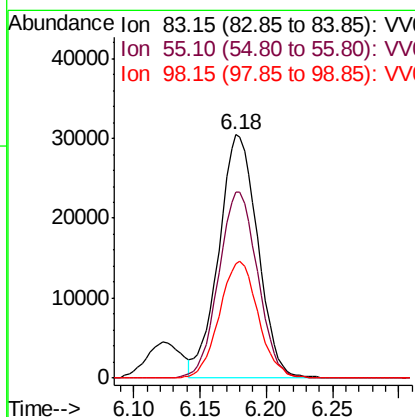
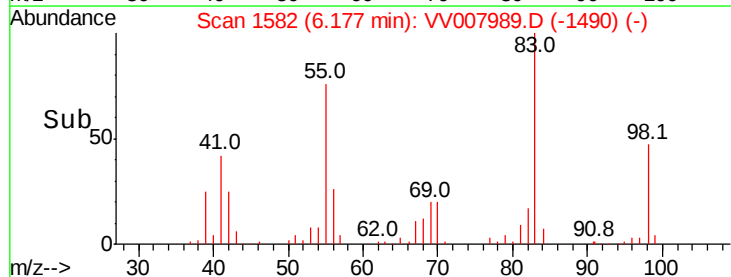


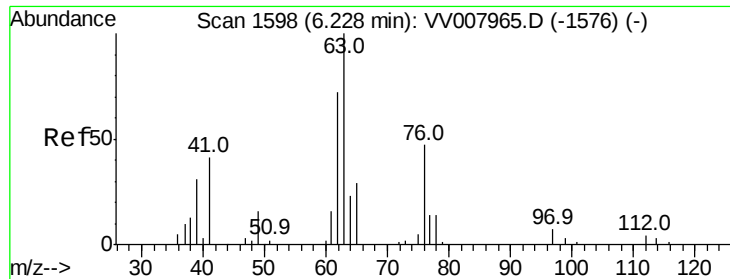
#35
 Methylcyclohexane
 Concen: 4.974 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion: 83 Resp: 62075
 Ion Ratio Lower Upper
 83 100
 55 76.4 62.2 93.2
 98 47.7 38.0 57.0



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





#37

1,2-Dichloropropane

Concen: 5.007 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :

MSVOA_V

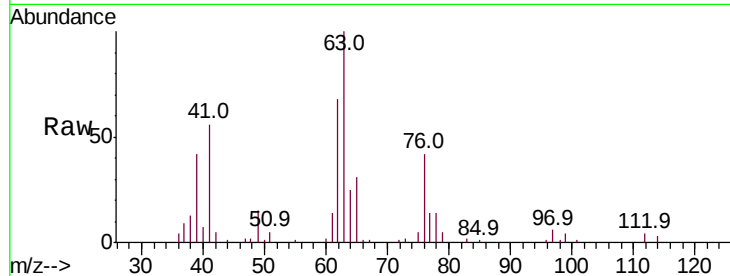
ClientSampleId :

Tot Ion: 63 Resp: 37175

Ion Ratio Lower Upper

63 100

112 4.1 3.4 5.0



Abundance Ion 63.10 (62.80 to 63.80): VV007965.D (-1576) (-)

Ion 112.10 (111.80 to 112.80): VV007965.D (-1576) (-)

6.23

20000

15000

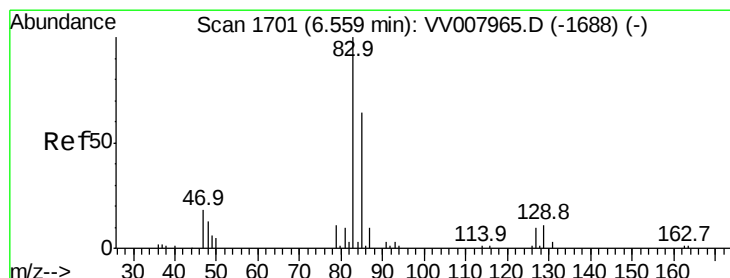
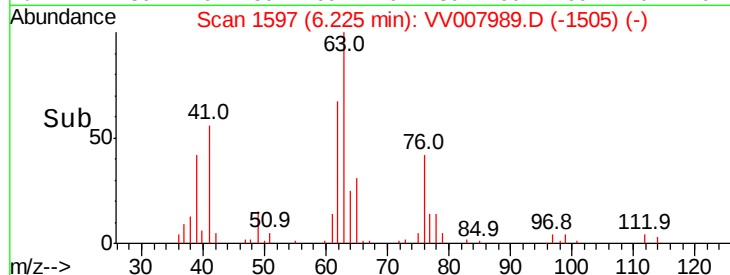
10000

5000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 5.084 ug/L

RT: 6.56 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

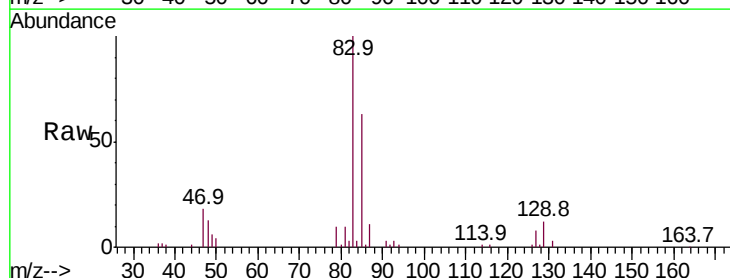
Tgt Ion: 83 Resp: 45135

Ion Ratio Lower Upper

83 100

85 63.1 44.7 82.9

127 8.5 7.8 11.6



Abundance Ion 82.95 (82.65 to 83.65): VV007965.D (-1688) (-)

Ion 85.00 (84.70 to 85.70): VV007965.D (-1688) (-)

Ion 126.90 (126.60 to 127.60): VV007965.D (-1688) (-)

6.56

30000

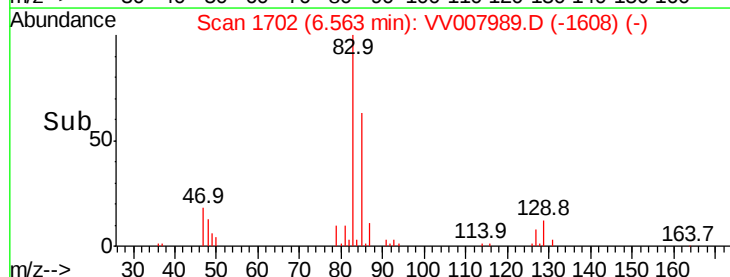
20000

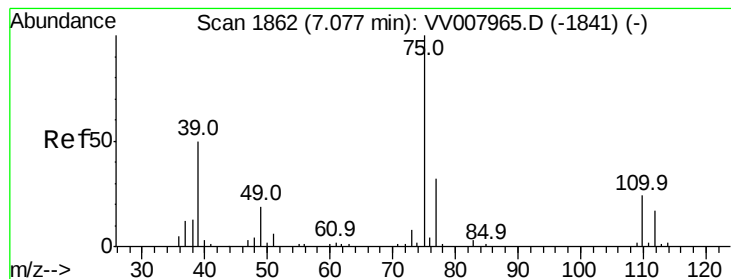
10000

0

6.50 6.55 6.60 6.65

Time-->



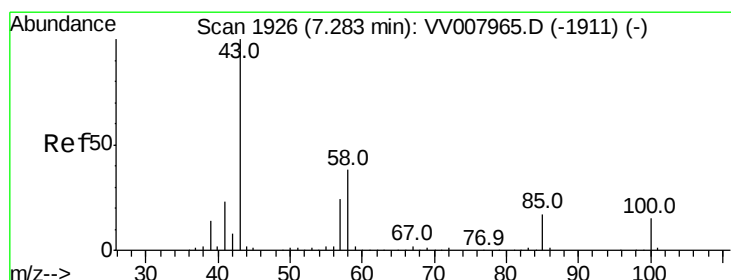
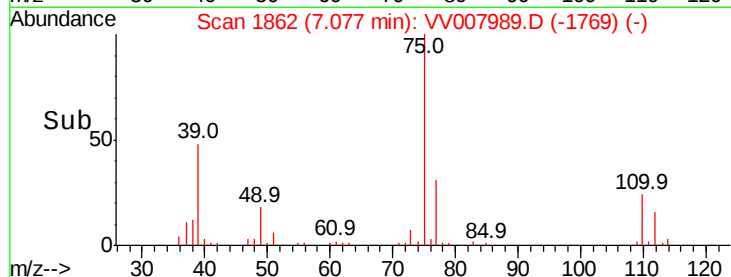
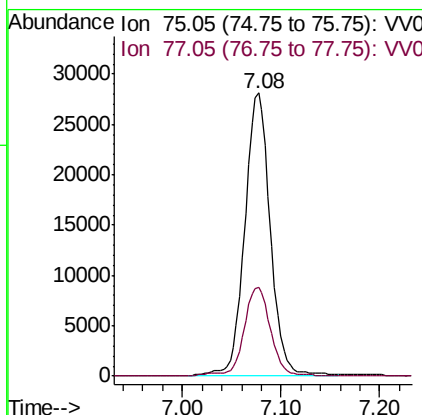
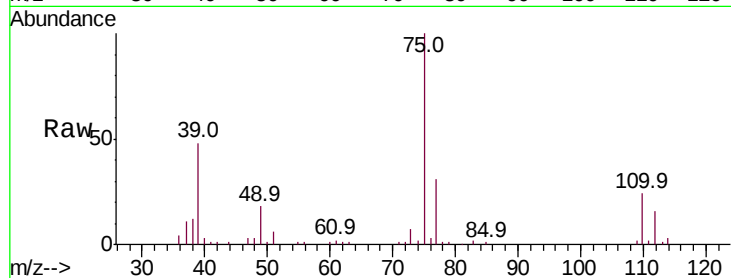


#39

cis-1,3-Dichloropropene
 Concen: 5.073 ug/L
 RT: 7.08 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Instrument :
 MSVOA_V
 ClientSampleId :

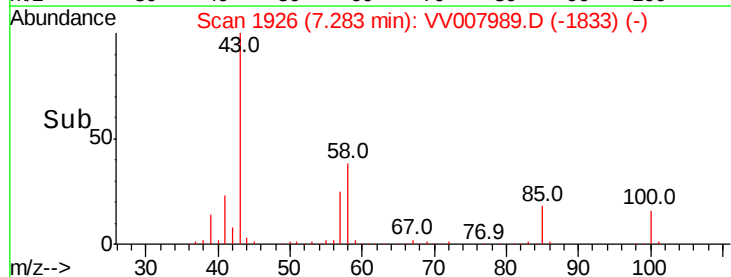
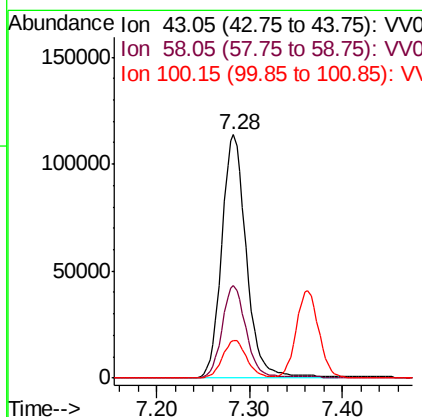
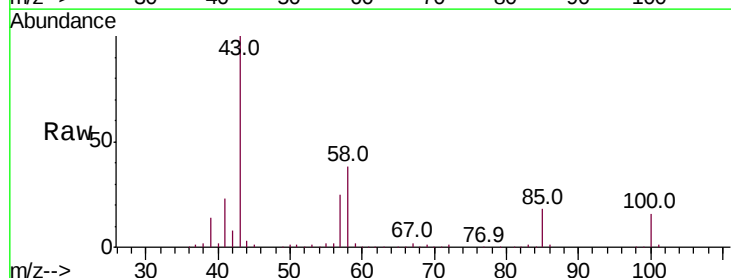
Tot Ion: 75 Resp: 50387
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.9 42.5

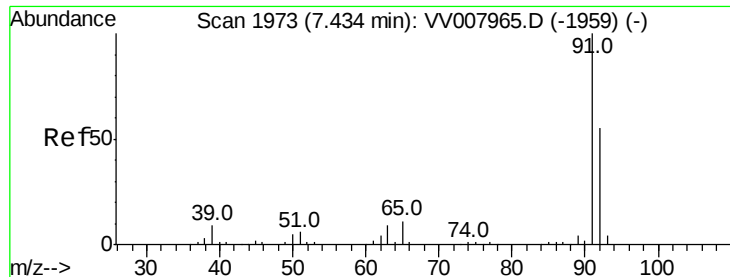


#40

4-Methyl-2-pentanone
 Concen: 45.204 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion: 43 Resp: 210664
 Ion Ratio Lower Upper
 43 100
 58 37.0 29.4 44.0
 100 15.2 11.5 17.3





#42

Toluene

Concen: 5.021 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

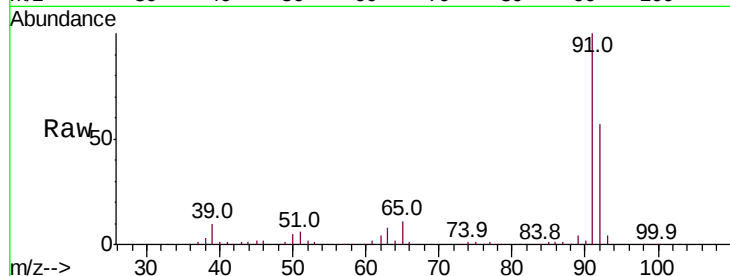
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 158908

Ion Ratio Lower Upper

91 100

92 57.4 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV007965.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV007965.D (-1959) (-)

7.43

100000

80000

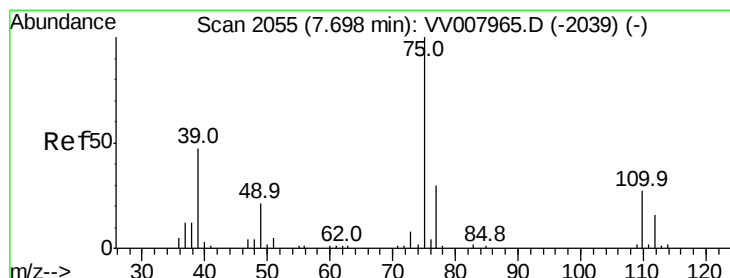
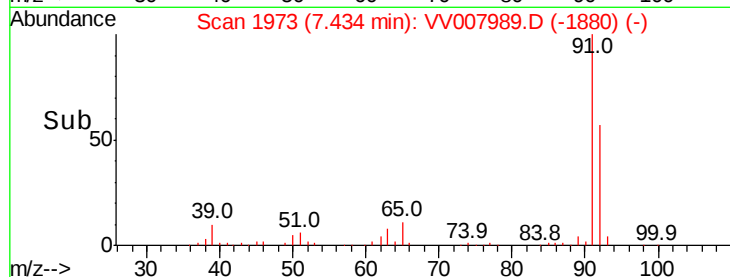
60000

40000

20000

0

Time--> 7.35 7.40 7.45 7.50 7.55



#44

trans-1,3-Dichloropropene

Concen: 4.960 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV007989.D

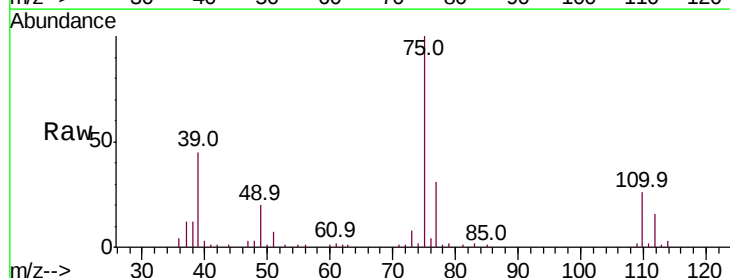
Acq: 01 Oct 2018 11:29

Tgt Ion: 75 Resp: 40954

Ion Ratio Lower Upper

75 100

77 30.9 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV007965.D (-2039) (-)

Ion 77.05 (76.75 to 77.75): VV007965.D (-2039) (-)

7.70

25000

20000

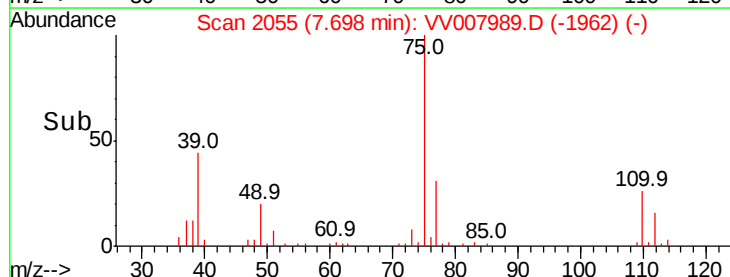
15000

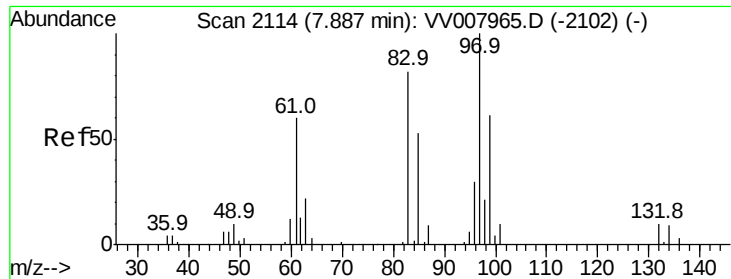
10000

5000

0

Time--> 7.60 7.65 7.70 7.75

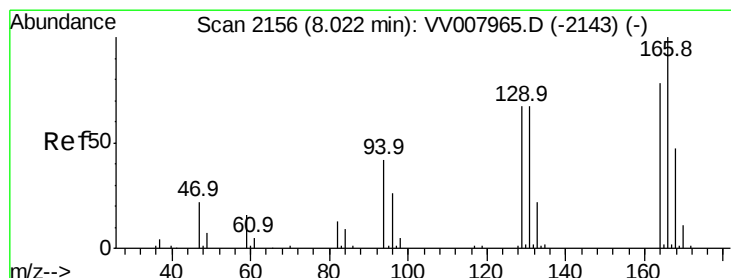
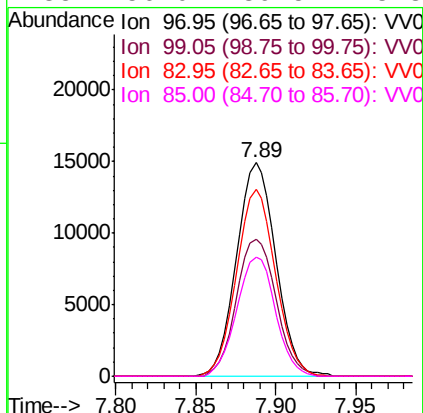
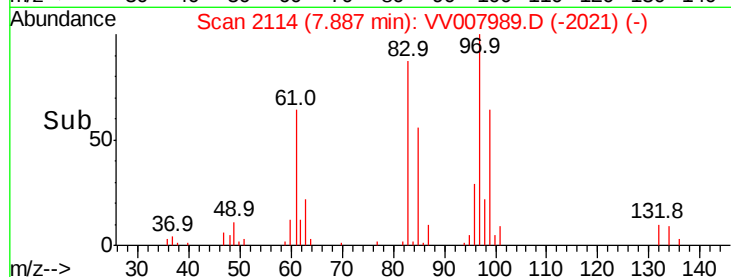
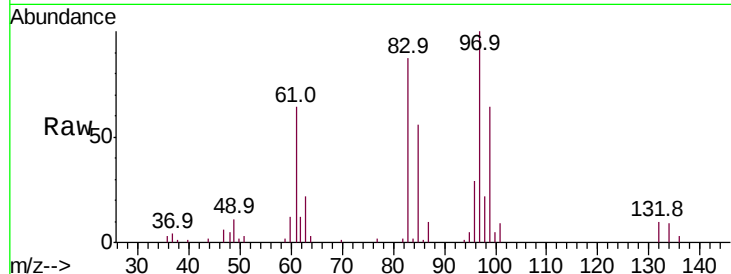




#45
 1,1,2-Trichloroethane
 Concen: 4.662 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

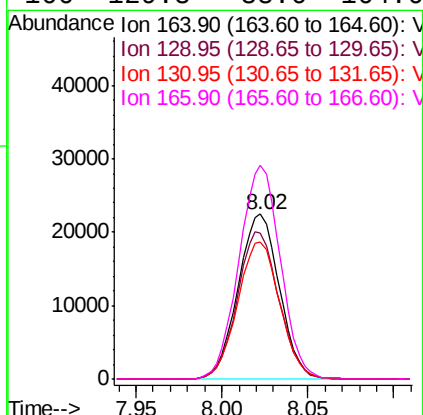
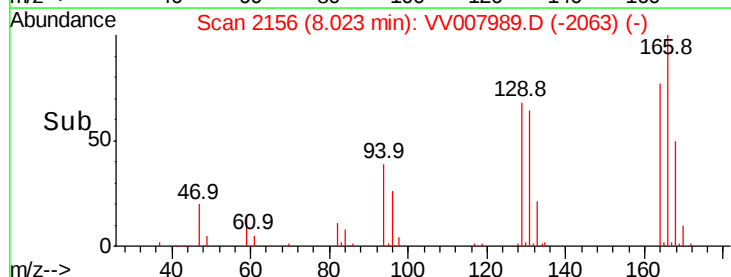
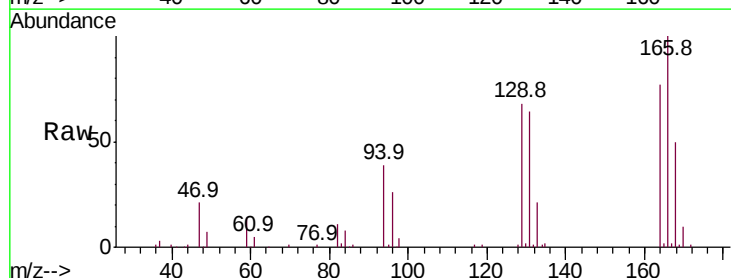
Instrument :
 MSVOA_V
 ClientSampleId :

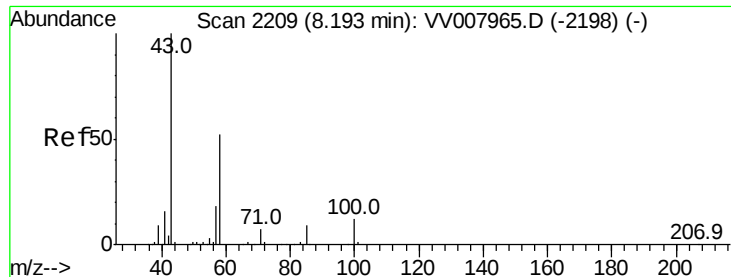
Tot Ion:	97	Resp:	24979
Ion	Ratio	Lower	Upper
97	100		
99	64.3	43.5	80.9
83	87.4	59.7	110.9
85	56.0	39.5	73.3



#47
 Tetrachloroethene
 Concen: 4.868 ug/L
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion:	164	Resp:	37544
Ion	Ratio	Lower	Upper
164	100		
129	88.5	59.2	110.0
131	83.6	57.1	106.1
166	129.8	88.6	164.6

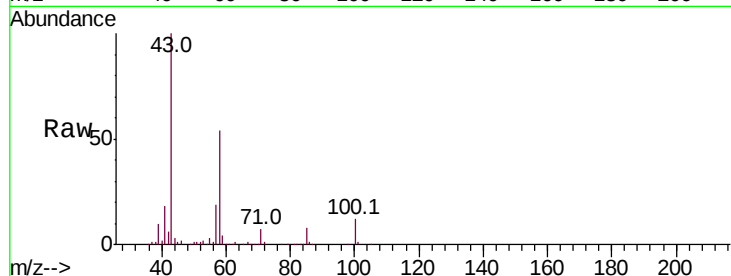




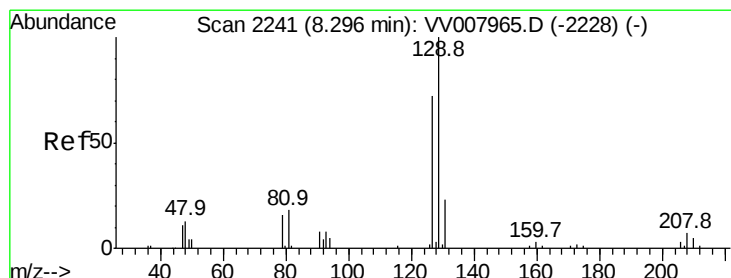
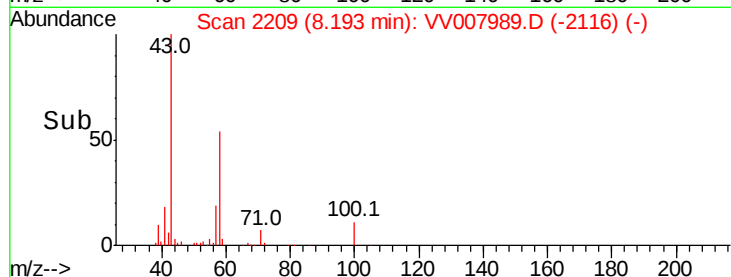
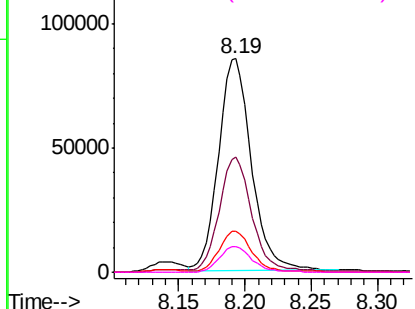
#48
2-Hexanone
Concen: 45.549 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 147638
Ion Ratio Lower Upper
43 100
58 53.8 41.9 62.9
57 19.1 14.3 21.5
100 12.2 9.2 13.8

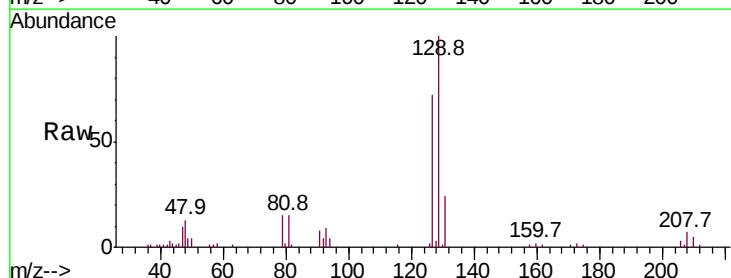


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

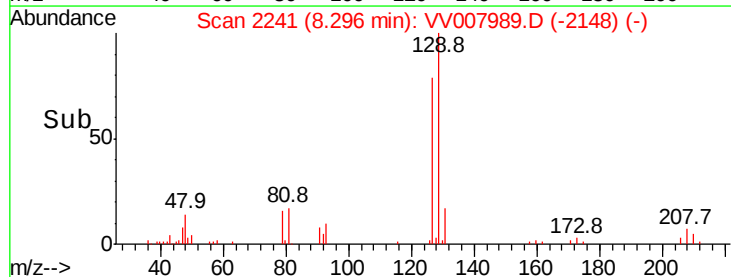
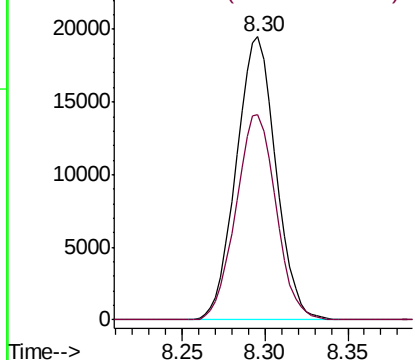


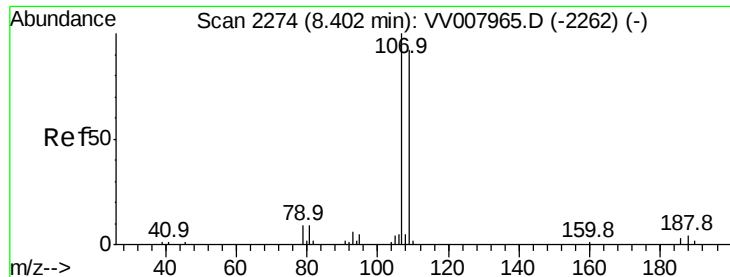
#49
Dibromochloromethane
Concen: 5.296 ug/L
RT: 8.30 min Scan# 2241
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion: 129 Resp: 32397
Ion Ratio Lower Upper
129 100
127 72.4 53.1 98.5



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

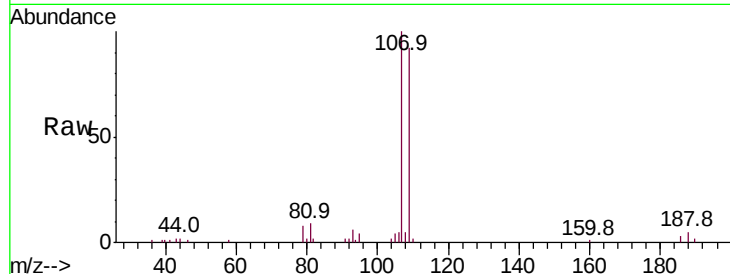




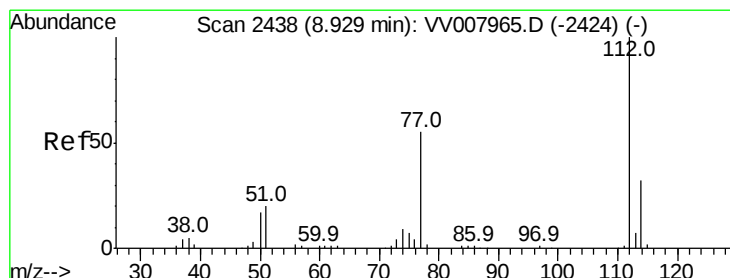
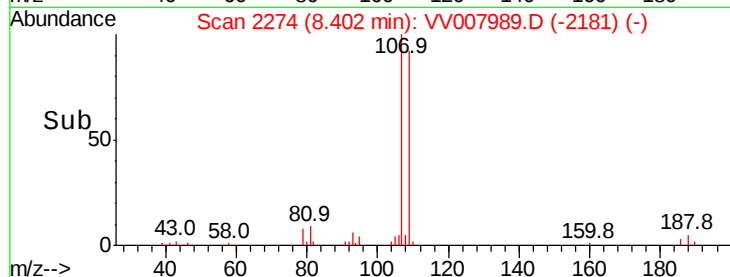
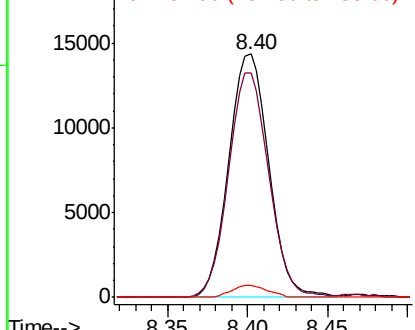
#50
 1,2-Dibromoethane
 Concen: 5.000 ug/L
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:107 Resp: 24491
 Ion Ratio Lower Upper
 107 100
 109 92.4 64.9 120.5
 188 5.1 4.0 6.0

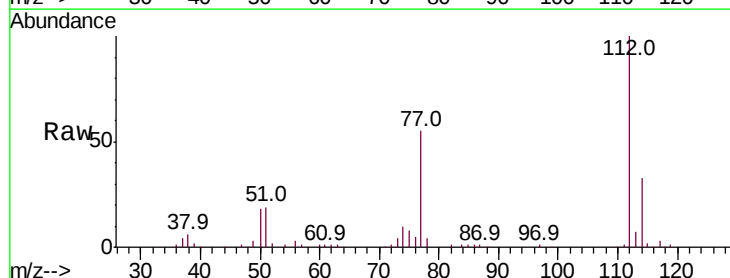


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

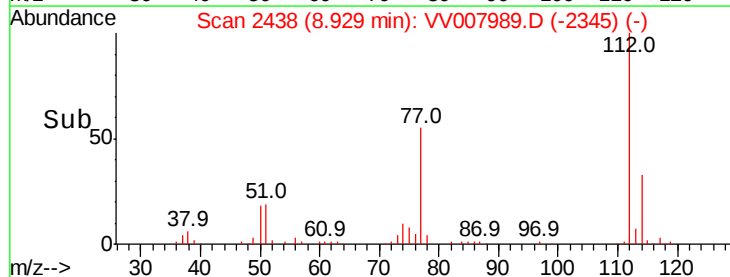
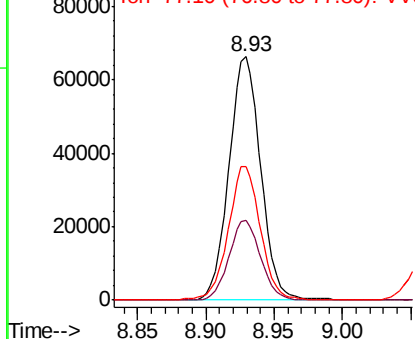


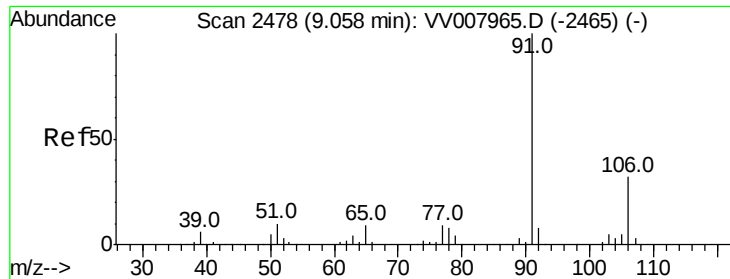
#51
 Chlorobenzene
 Concen: 4.897 ug/L
 RT: 8.93 min Scan# 2438
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion:112 Resp: 107072
 Ion Ratio Lower Upper
 112 100
 114 32.8 22.4 41.6
 77 55.1 45.0 67.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.940 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

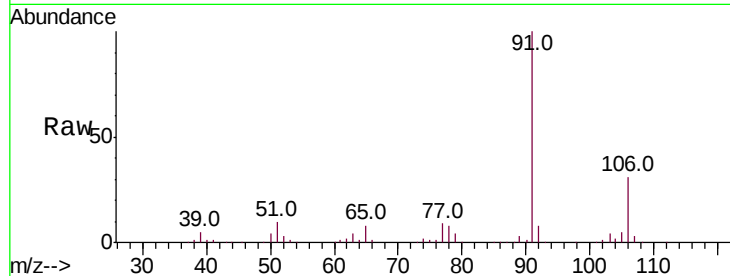
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 174421

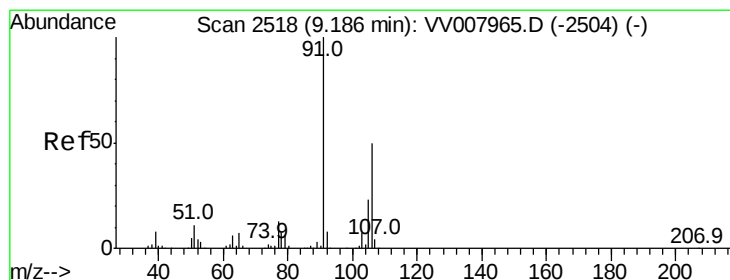
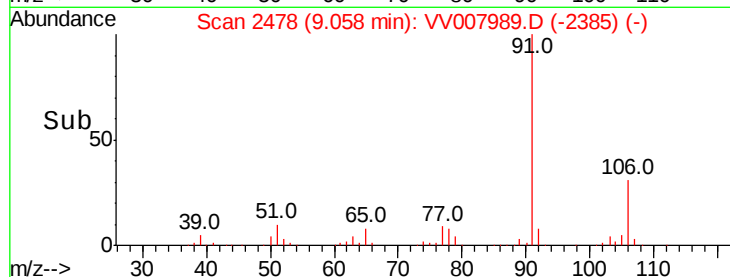
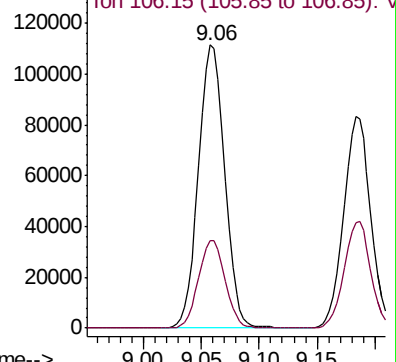
Ion Ratio Lower Upper

91 100

106 30.8 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV007989.D (-2385) (-)



#53

m,p-xylene

Concen: 5.019 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.00 min

Lab File: VV007989.D

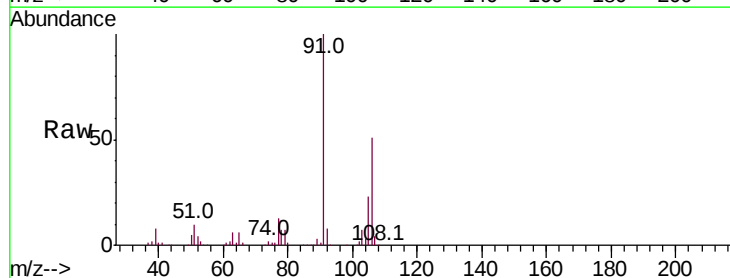
Acq: 01 Oct 2018 11:29

Tgt Ion: 106 Resp: 67485

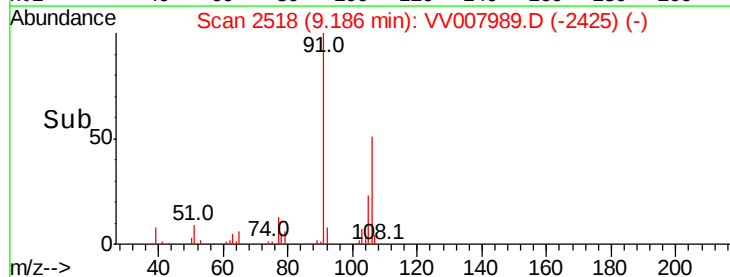
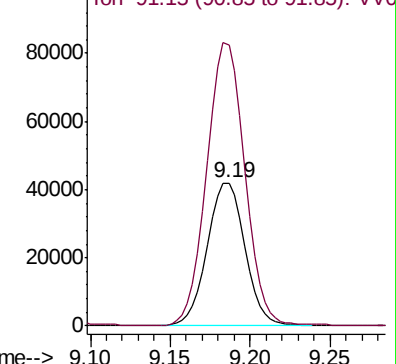
Ion Ratio Lower Upper

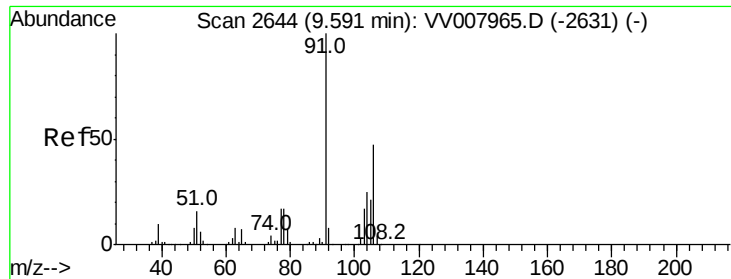
106 100

91 196.4 139.4 258.8



Abundance Ion 106.15 (105.85 to 106.85): VV007989.D (-2425) (-)





#54

o-xylene

Concen: 4.950 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :

MSVOA_V

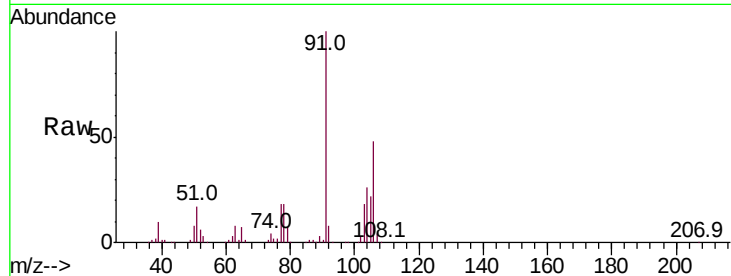
ClientSampleId :

Tot Ion:106 Resp: 64279

Ion Ratio Lower Upper

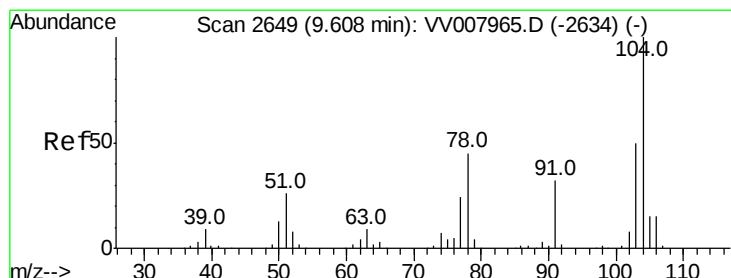
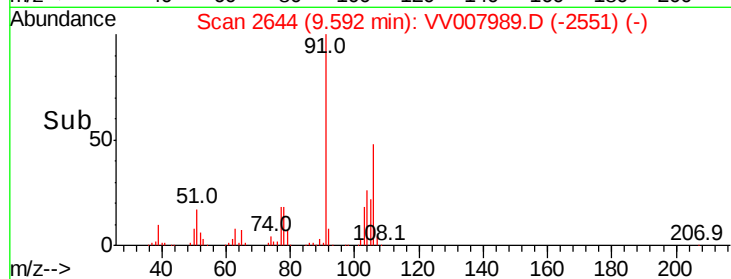
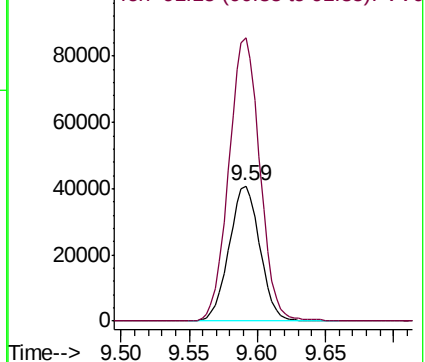
106 100

91 209.4 150.1 278.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.940 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV007989.D

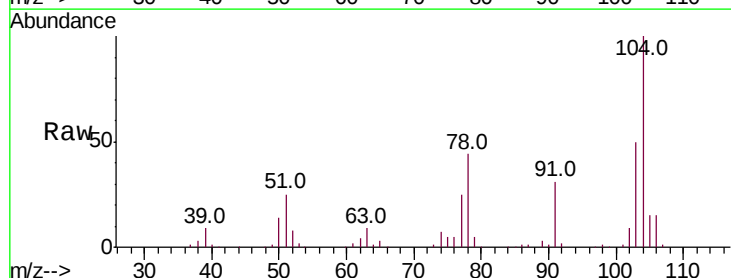
Acq: 01 Oct 2018 11:29

Tgt Ion:104 Resp: 109562

Ion Ratio Lower Upper

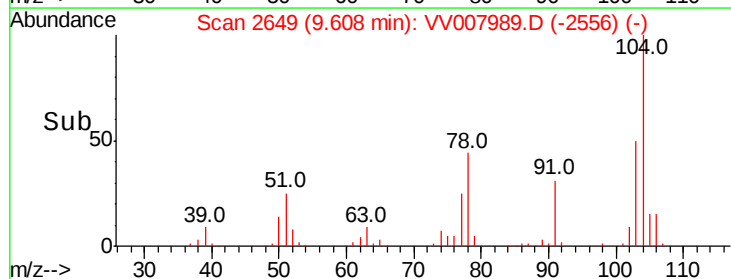
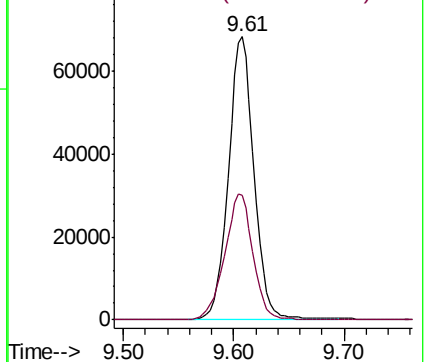
104 100

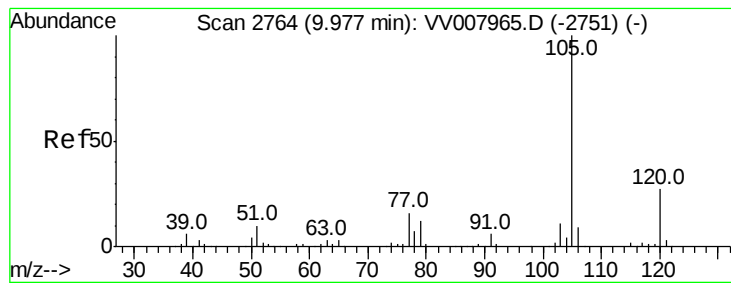
78 44.1 30.4 56.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.997 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :

MSVOA_V

ClientSampleId :

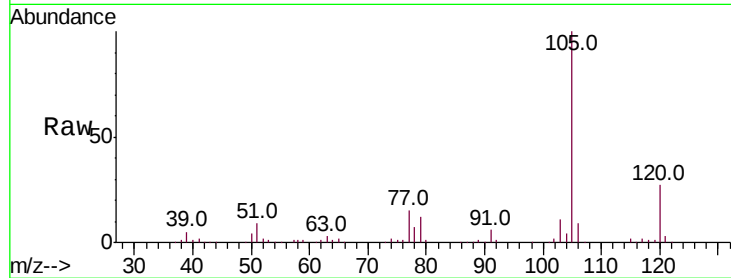
Tot Ion:105 Resp: 175765

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.0

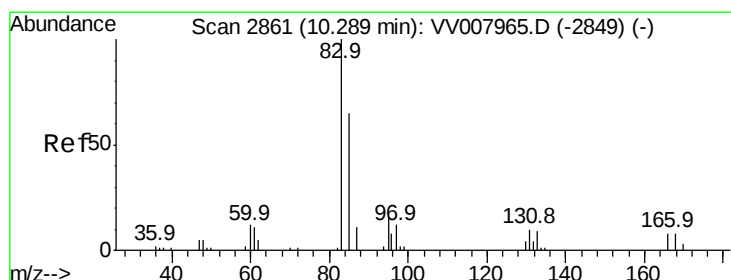
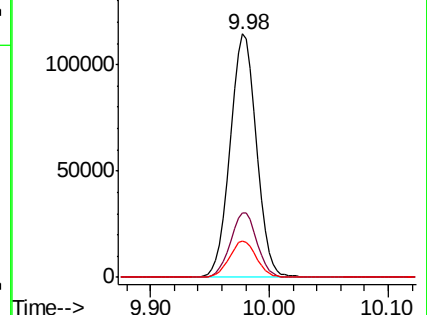
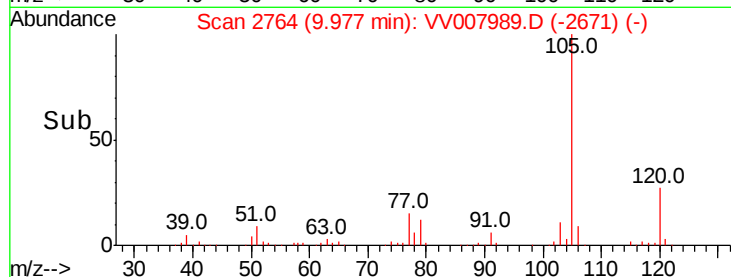
77 15.2 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.728 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

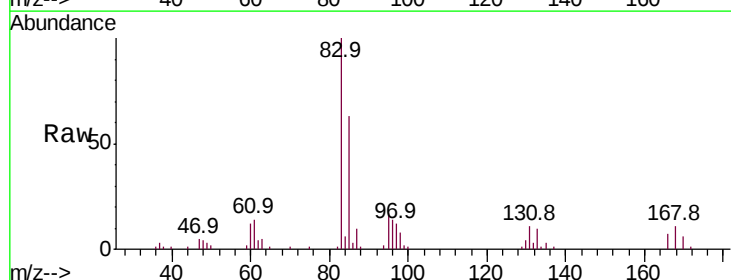
Tgt Ion: 83 Resp: 29754

Ion Ratio Lower Upper

83 100

85 62.8 43.7 81.1

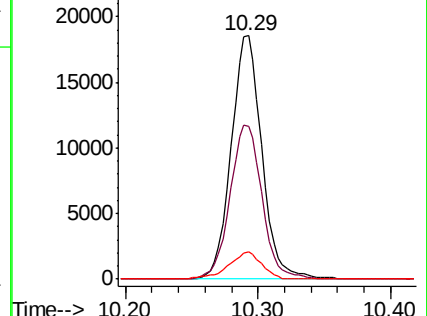
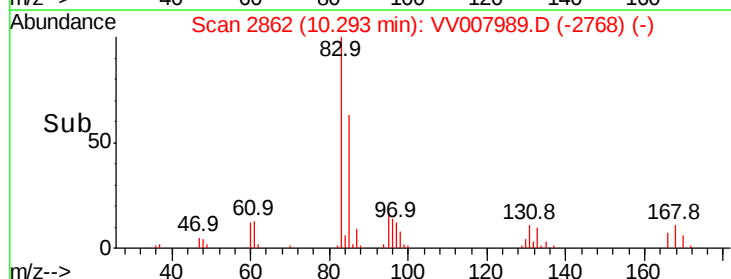
131 11.0 9.0 13.4

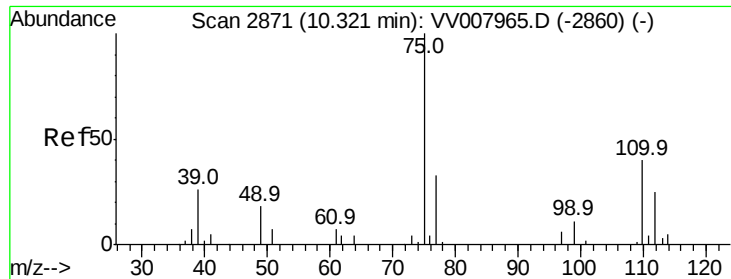


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

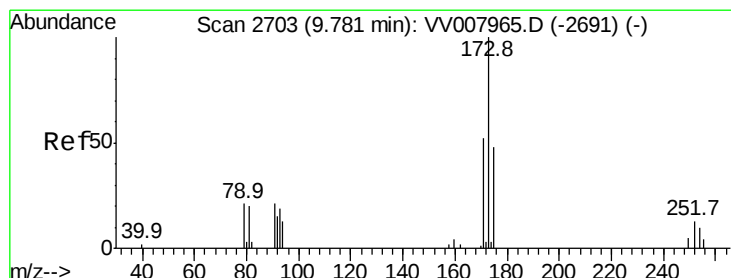
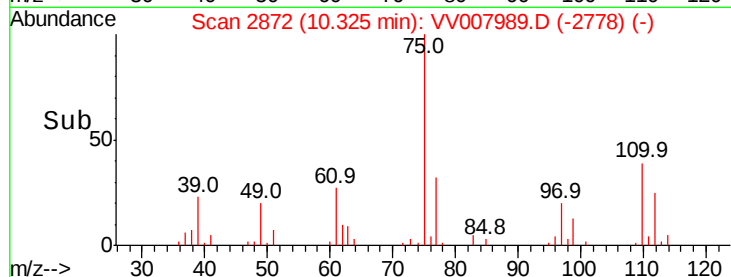
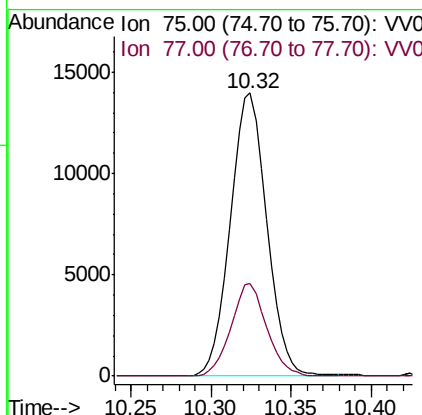
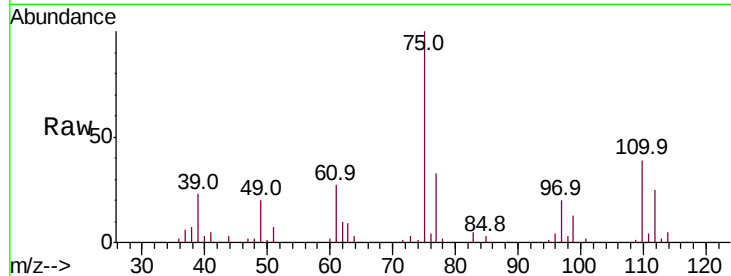




#59
 1,2,3-Trichloropropane
 Concen: 4.697 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

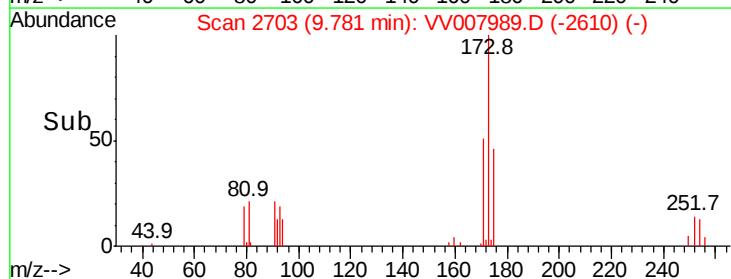
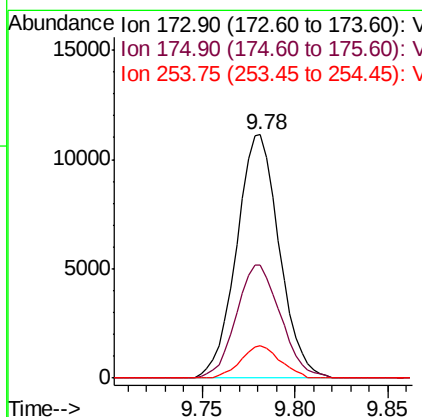
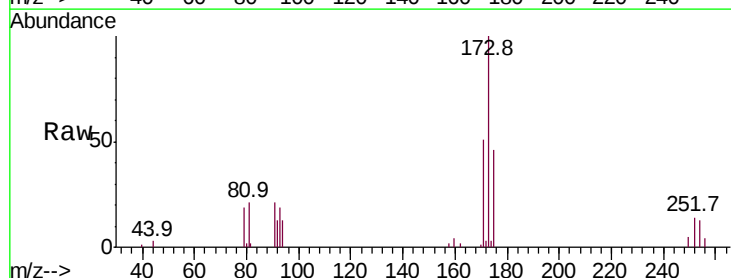
Instrument :
 MSVOA_V
 ClientSampleId :

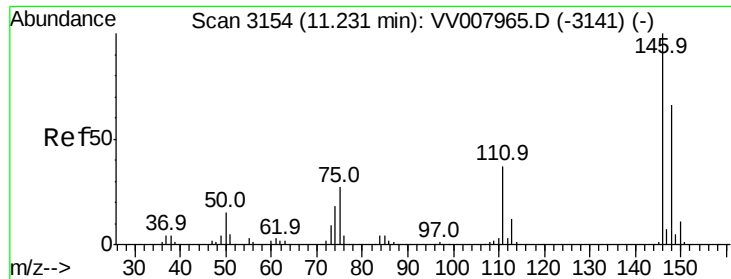
Tot Ion: 75 Resp: 21698
 Ion Ratio Lower Upper
 75 100
 77 31.6 26.4 39.6



#61
 Bromoform
 Concen: 5.300 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion:173 Resp: 17836
 Ion Ratio Lower Upper
 173 100
 175 48.2 41.0 61.6
 254 12.2 9.6 14.4

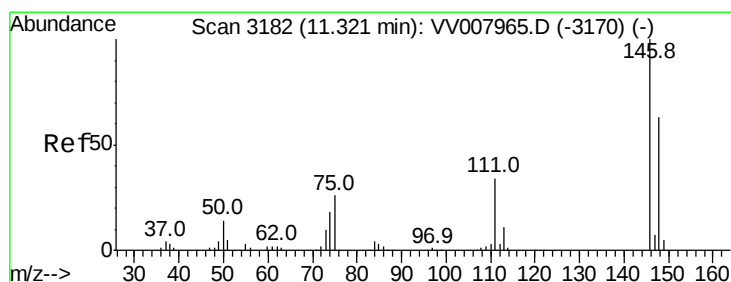
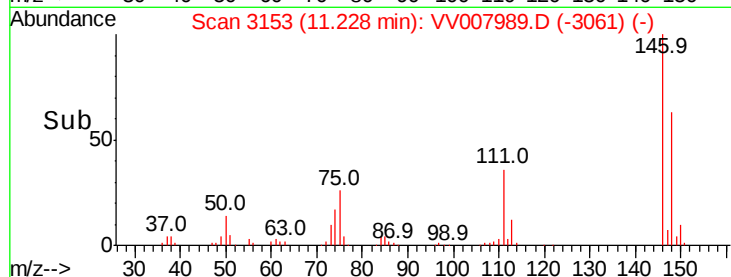
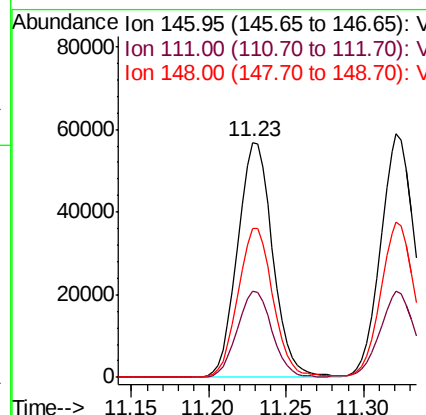
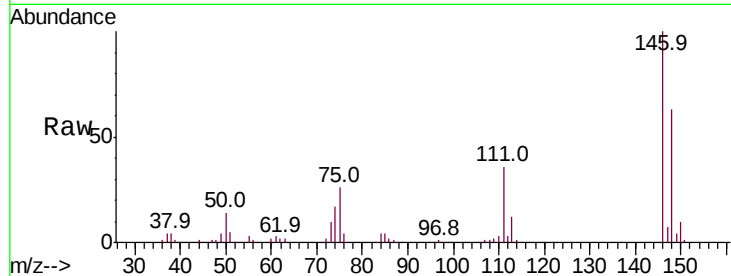




#62
 1,3-Dichlorobenzene
 Concen: 4.848 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

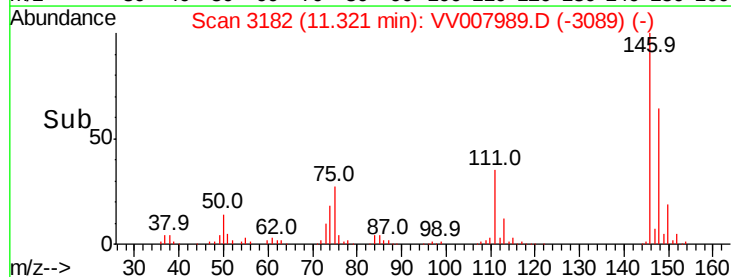
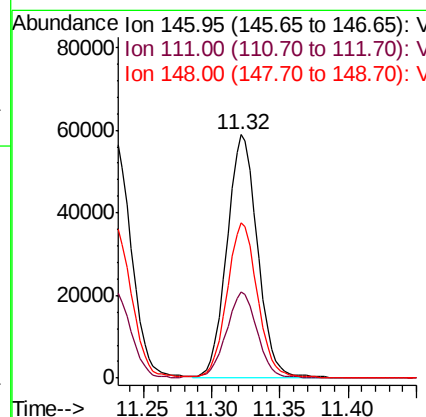
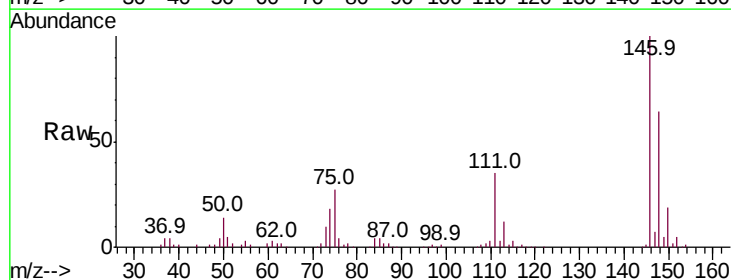
Instrument :
 MSVOA_V
 ClientSampleId :

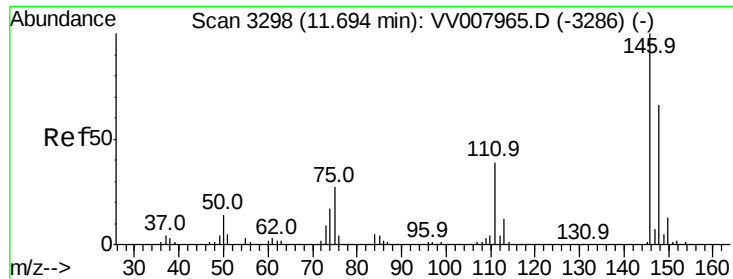
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	25.8	48.0
148	63.4	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 4.787 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	25.3	47.1
148	63.7	44.7	82.9





#65

1,2-Dichlorobenzene

Concen: 4.892 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

Instrument :

MSVOA_V

ClientSampleId :

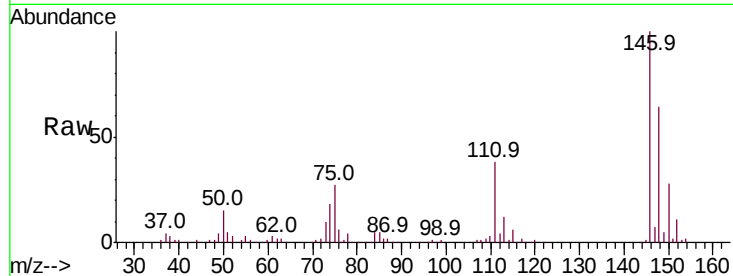
Tot Ion:146 Resp: 85316

Ion Ratio Lower Upper

146 100

111 37.7 31.2 46.8

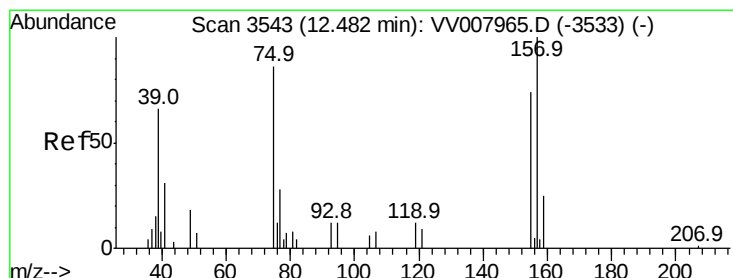
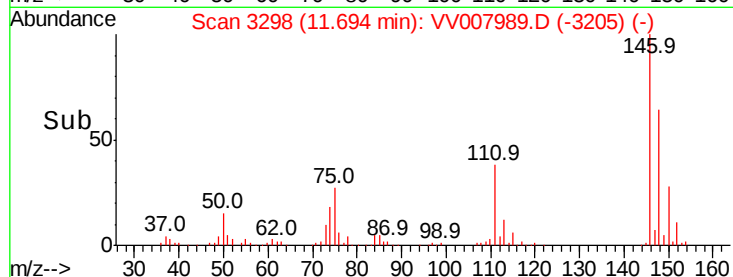
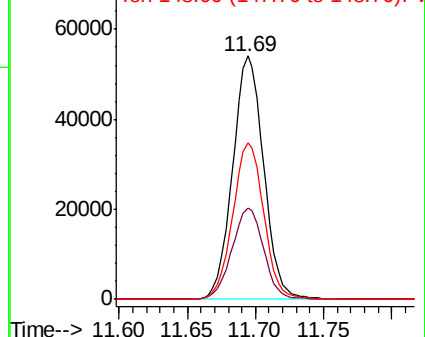
148 64.2 50.3 75.5



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: 4.890 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV007989.D

Acq: 01 Oct 2018 11:29

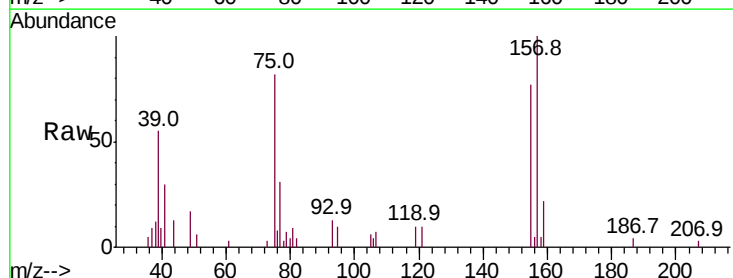
Tgt Ion: 75 Resp: 4344

Ion Ratio Lower Upper

75 100

155 93.8 83.4 125.2

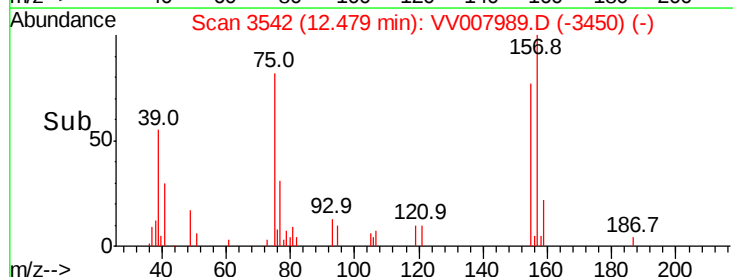
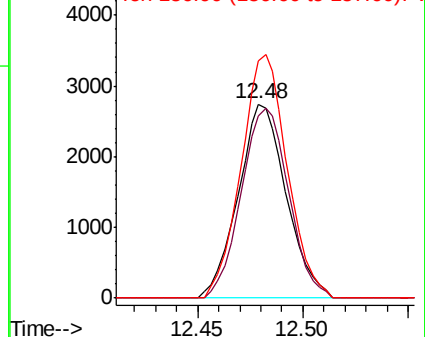
157 121.8 93.9 140.9

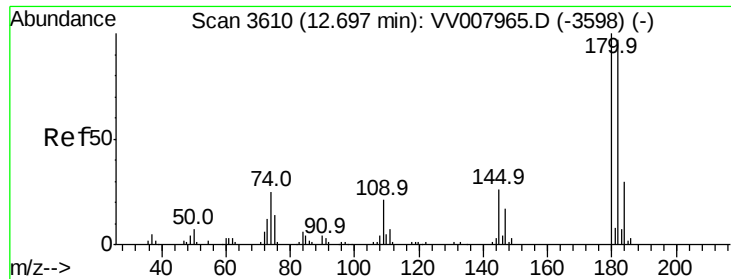


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

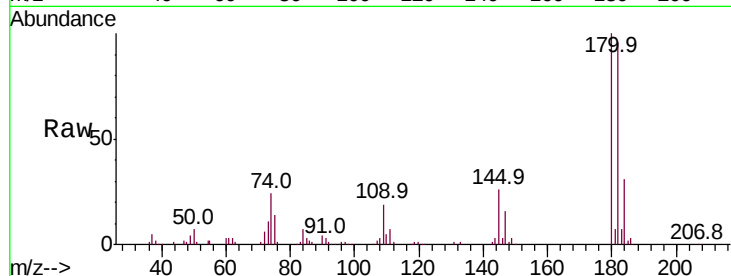




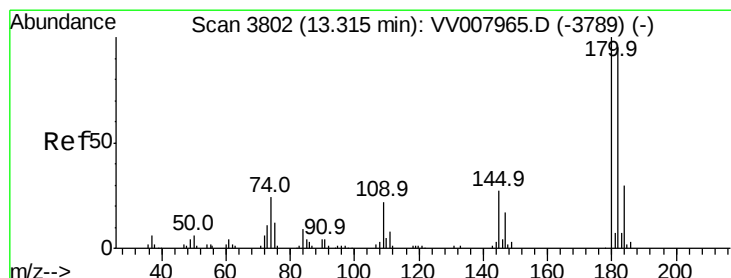
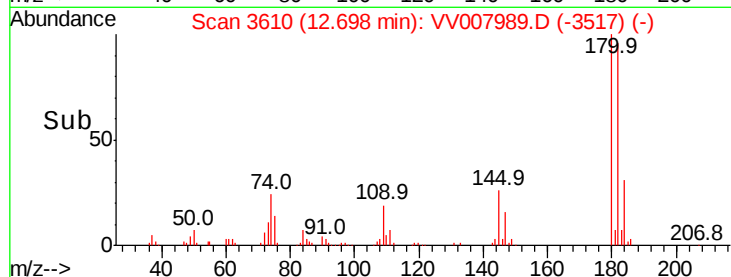
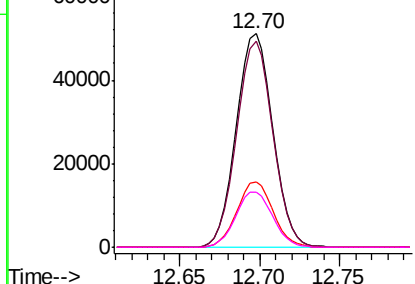
#67
 1,3,5-Trichlorobenzene
 Concen: 5.015 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	79447
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.4
184	30.2	24.5	36.7
145	26.1	22.2	33.4

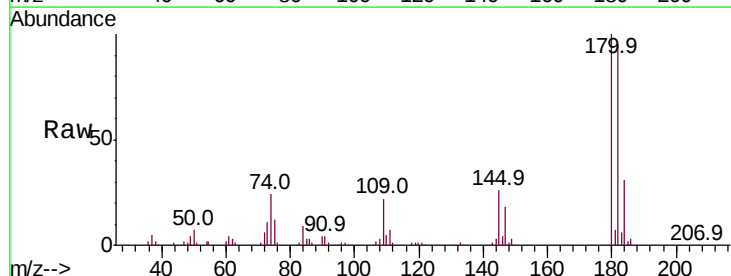


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

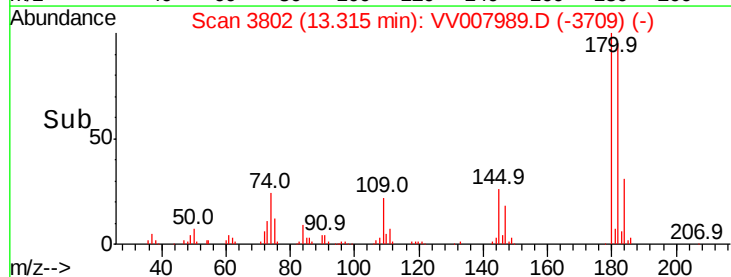
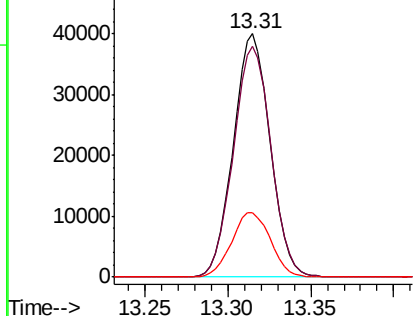


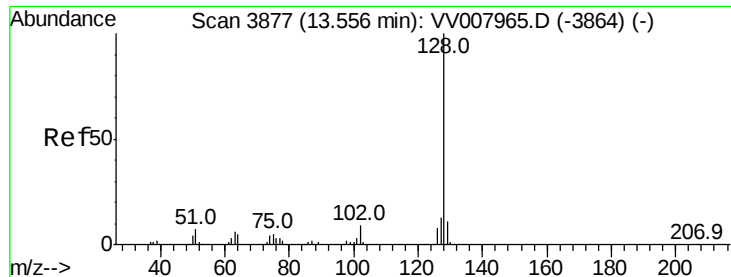
#68
 1,2,4-trichlorobenzene
 Concen: 4.619 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV007989.D
 Acq: 01 Oct 2018 11:29

Tgt Ion:	180	Resp:	61844
Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.2
145	27.9	22.6	33.8



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

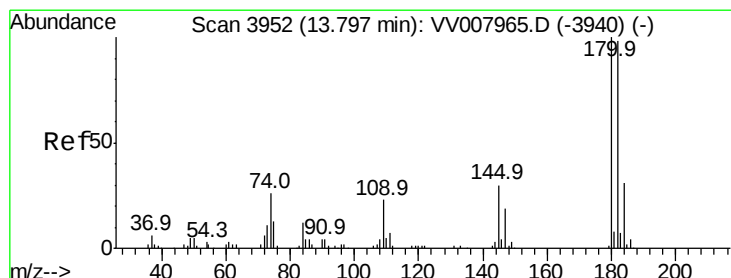
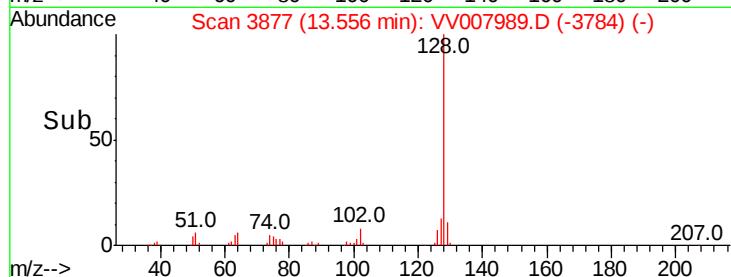
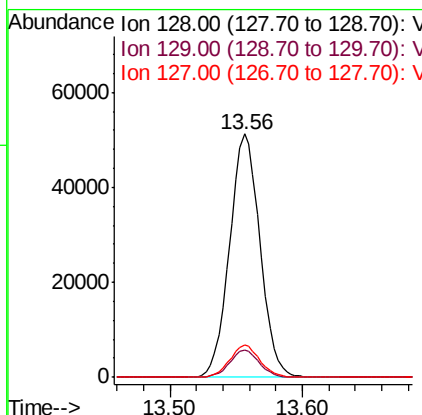
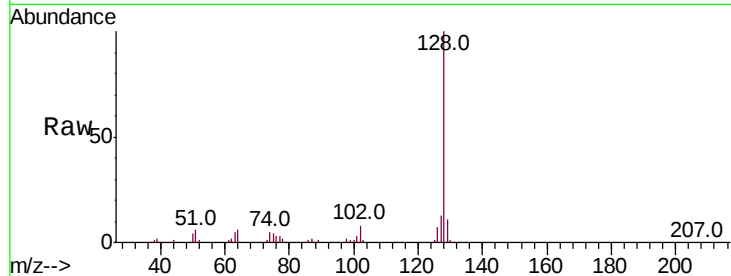




#69
Naphthalene
Concen: 4.359 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 81635
Ion Ratio Lower Upper
128 100
129 10.7 8.6 13.0
127 13.0 10.3 15.5



#70
1,2,3-Trichlorobenzene
Concen: 4.677 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. 0.00 min
Lab File: VV007989.D
Acq: 01 Oct 2018 11:29

Tgt Ion:180 Resp: 56711
Ion Ratio Lower Upper
180 100
182 97.0 75.7 113.5
145 29.0 23.4 35.0

