

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
 Data File : VV014152.D
 Acq On : 20 Dec 2019 15:30
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Quant Time: Dec 21 02:35:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 21 02:31:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	377014	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	371692	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	202450	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	117265	5.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.40%
7) Chloroethane-d5	1.58	69	102513	5.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.40%
11) 1,1-Dichloroethene-d2	2.13	63	198985	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.40%
20) 2-Butanone-d5	3.95	46	269956	55.65	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.30%
24) Chloroform-d	4.40	84	239804	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
26) 1,2-Dichloroethane-d4	5.08	65	116121	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.80%
32) Benzene-d6	5.09	84	459039	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.11	67	139721	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	7.35	98	424716	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.66	79	52238	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.13	63	197079	48.03	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.06%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	101364	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	157614	4.41	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	117131	4.665 ug/L	98
3) Chloromethane	1.25	50	109492	4.965 ug/L	97
5) Vinyl chloride	1.32	62	109824	4.876 ug/L	99
6) Bromomethane	1.53	94	58247	4.911 ug/L	99
8) Chloroethane	1.60	64	70035	5.160 ug/L	98
9) Trichlorofluoromethane	1.77	101	175170	5.009 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	101625	4.890 ug/L	98
12) 1,1-Dichloroethene	2.14	96	86757	4.786 ug/L	92
13) Acetone	2.21	43	186902	55.097 ug/L #	62
14) Carbon disulfide	2.32	76	197882	4.729 ug/L	99
15) Methyl Acetate	2.47	43	45862	6.039 ug/L	94
16) Methylene chloride	2.53	84	126749	5.105 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	252109	5.082 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	100772	4.923 ug/L	95
19) 1,1-Dichloroethane	3.23	63	222710	5.450 ug/L	98
21) 2-Butanone	4.03	43	277620	54.143 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	118543	4.939 ug/L	90

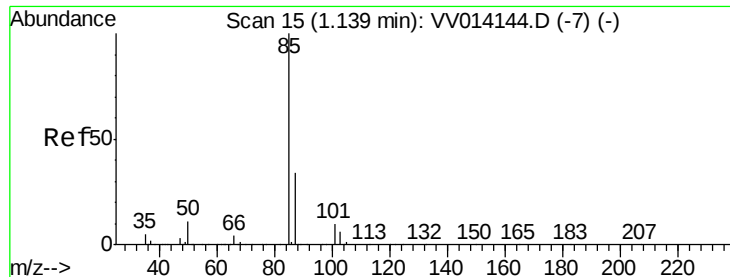
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 21 02:31:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	54336	5.152	ug/L	95
25) Chloroform	4.42	83	234944	5.423	ug/L	100
27) 1,2-Dichloroethane	5.18	62	131814	5.317	ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	194069	5.104	ug/L	100
30) Cyclohexane	4.72	56	146129	4.600	ug/L	98
31) Carbon tetrachloride	4.87	117	165709	4.954	ug/L	98
33) Benzene	5.14	78	456602	5.008	ug/L	100
34) Trichloroethene	5.95	95	114474	4.551	ug/L	97
35) Methylcyclohexane	6.17	83	149272	4.448	ug/L	95
37) 1,2-Dichloropropane	6.22	63	119094	5.082	ug/L	99
38) Bromodichloromethane	6.55	83	158669	5.132	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	154239	4.639	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	702762	51.399	ug/L	97
42) Toluene	7.43	91	470993	4.816	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	126940	4.877	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	85474	5.118	ug/L	99
47) Tetrachloroethene	8.01	164	102395	4.688	ug/L	96
48) 2-Hexanone	8.18	43	503423	51.583	ug/L	99
49) Dibromochloromethane	8.29	129	105322	4.917	ug/L	97
50) 1,2-Dibromoethane	8.39	107	73992	4.893	ug/L	98
51) Chlorobenzene	8.92	112	324426	4.768	ug/L	96
52) Ethylbenzene	9.05	91	517174	4.868	ug/L	97
53) m,p-xylene	9.18	106	200905	4.960	ug/L	100
54) o-xylene	9.58	106	191741	4.849	ug/L	99
55) Styrene	9.60	104	347231	5.086	ug/L	98
56) Isopropylbenzene	9.97	105	528877	4.908	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	104733	5.708	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	75036	5.217	ug/L	97
61) Bromoform	9.77	173	63748	5.003	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	283060	4.813	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	278587	4.654	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	261639	4.793	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.47	75	13671	4.310	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	229091	4.611	ug/L	98
68) 1,2,4-trichlorobenzene	13.30	180	177327	4.352	ug/L	99
69) Naphthalene	13.55	128	212408	3.829	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	169160	4.558	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.665 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

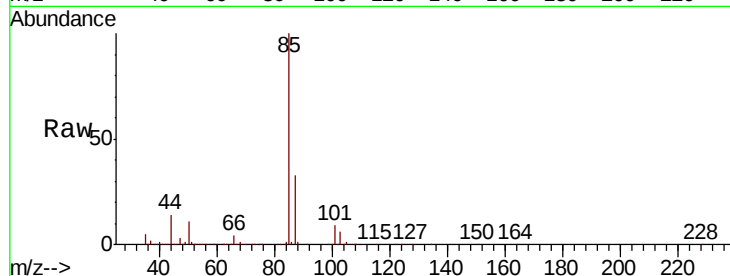
VSTD00560

Tot Ion: 85 Resp: 117131

Ion Ratio Lower Upper

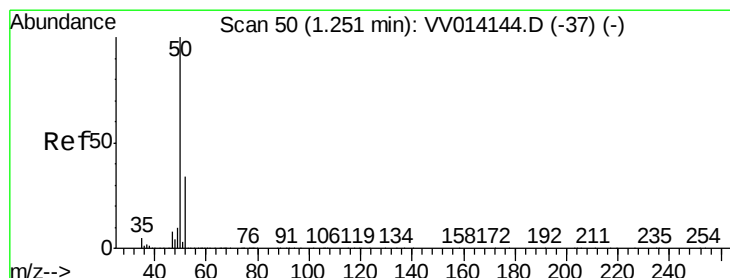
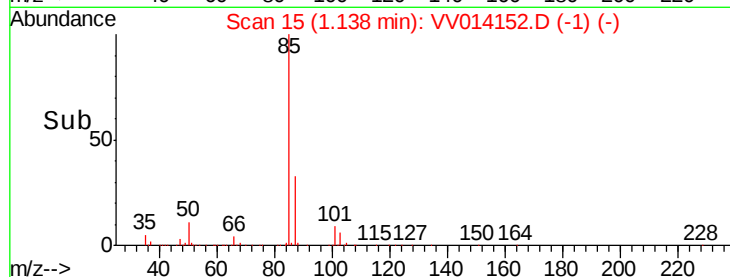
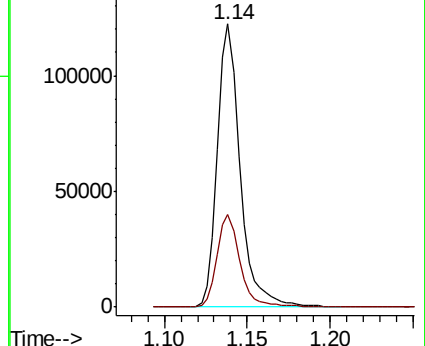
85 100

87 33.0 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.965 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV014152.D

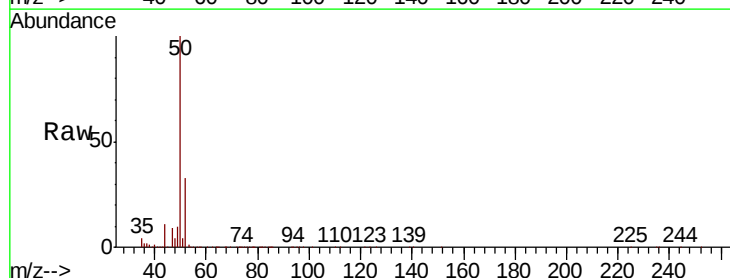
Acq: 20 Dec 2019 15:30

Tgt Ion: 50 Resp: 109492

Ion Ratio Lower Upper

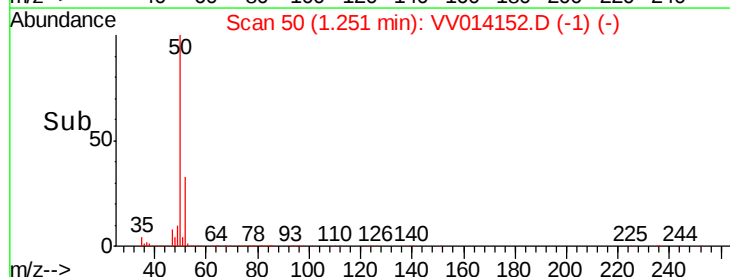
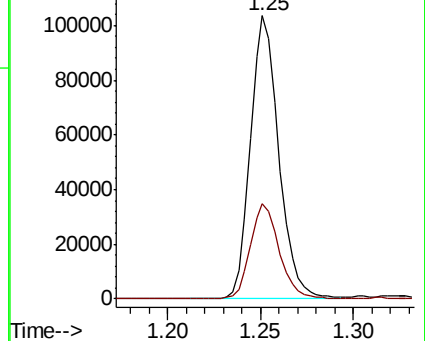
50 100

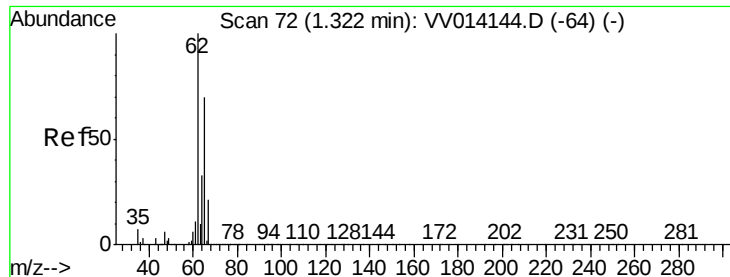
52 33.5 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.876 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

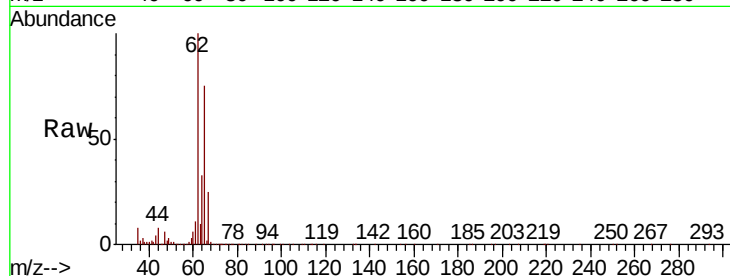
VSTD00560

Tot Ion: 62 Resp: 109824

Ion Ratio Lower Upper

62 100

64 32.6 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

120000

100000

80000

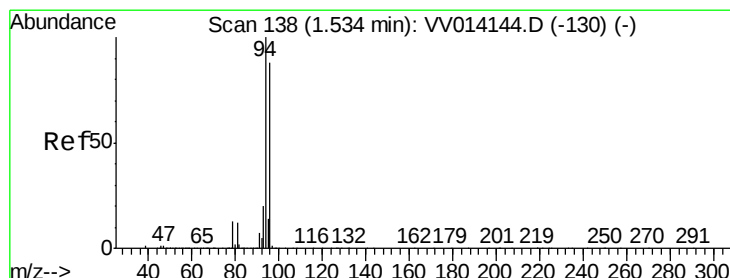
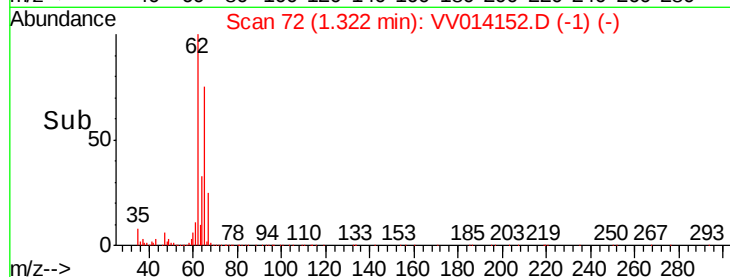
60000

40000

20000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 4.911 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014152.D

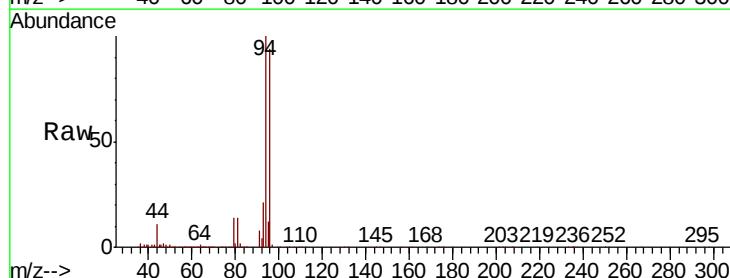
Acq: 20 Dec 2019 15:30

Tgt Ion: 94 Resp: 58247

Ion Ratio Lower Upper

94 100

96 94.3 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

60000

50000

40000

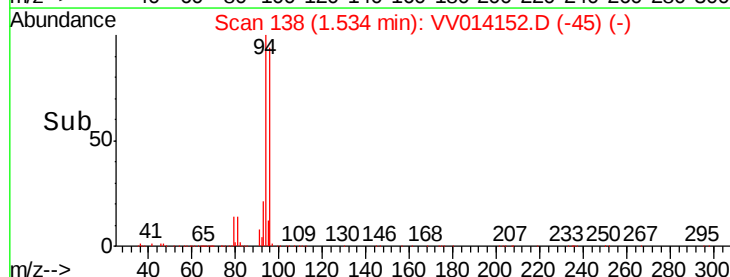
30000

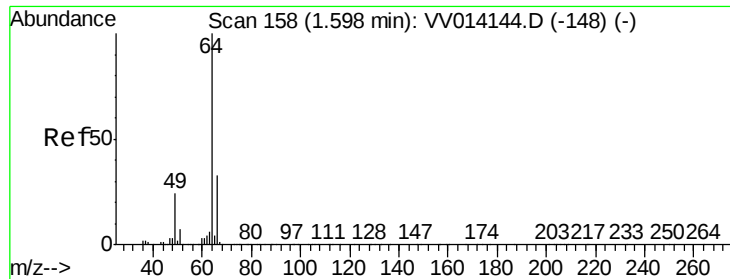
20000

10000

0

Time--> 1.45 1.50 1.55 1.60

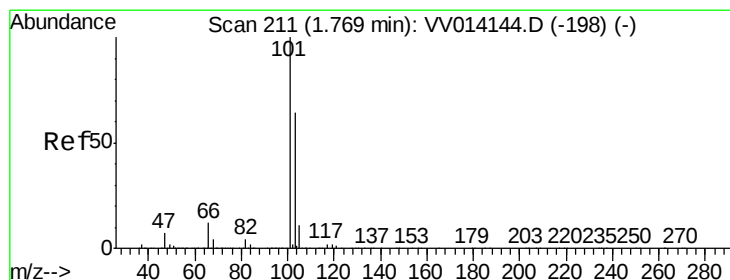
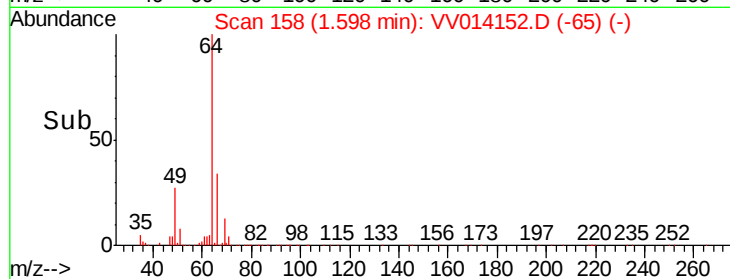
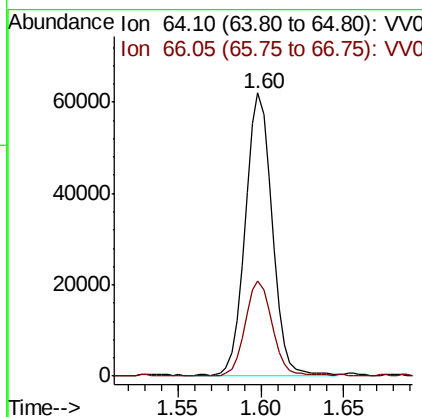
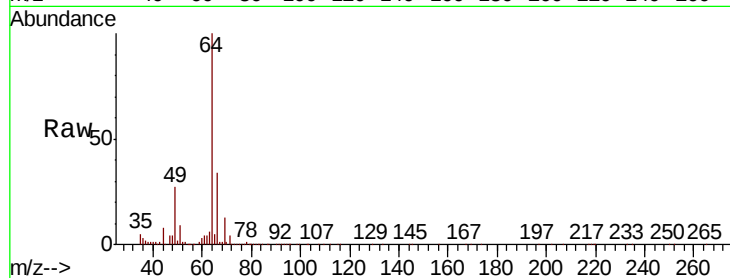




#8
Chloroethane
Concen: 5.160 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

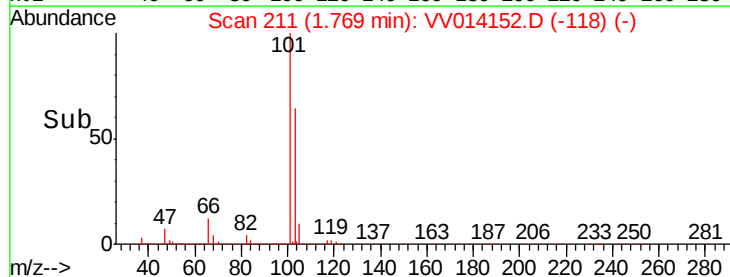
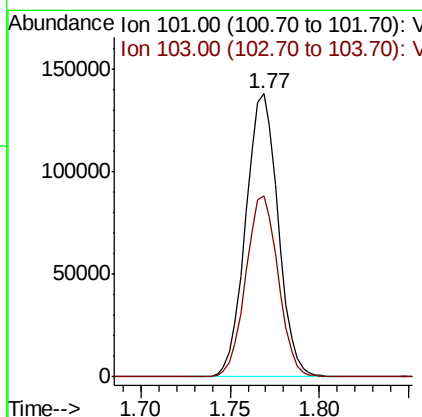
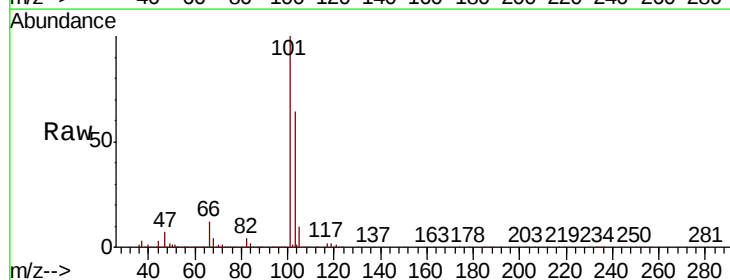
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

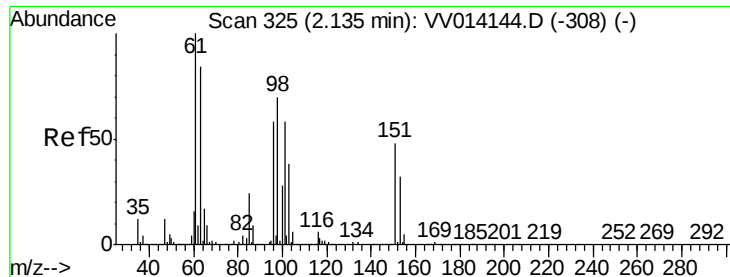
Tot Ion: 64 Resp: 70035
Ion Ratio Lower Upper
64 100
66 33.7 22.6 42.0



#9
Trichlorofluoromethane
Concen: 5.009 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Tgt Ion: 101 Resp: 175170
Ion Ratio Lower Upper
101 100
103 64.0 52.9 79.3





#10

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

Concen: 4.890 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

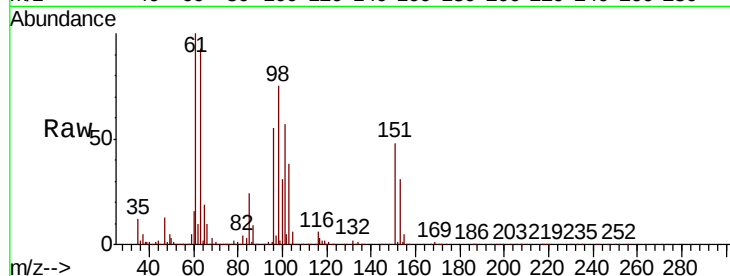
Tot Ion:101 Resp: 101625

Ion Ratio Lower Upper

101 100

85 42.2 33.4 50.0

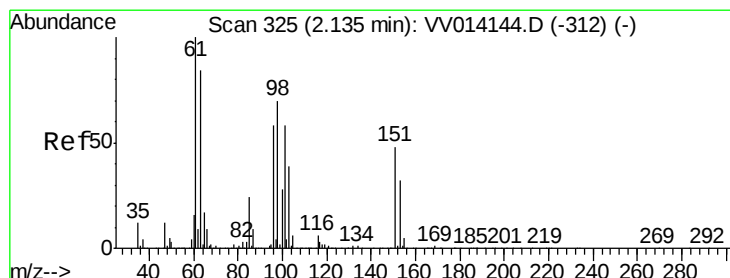
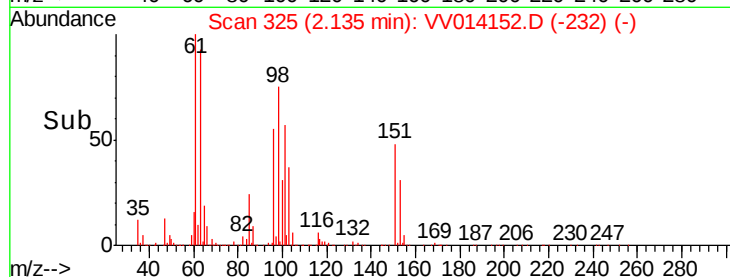
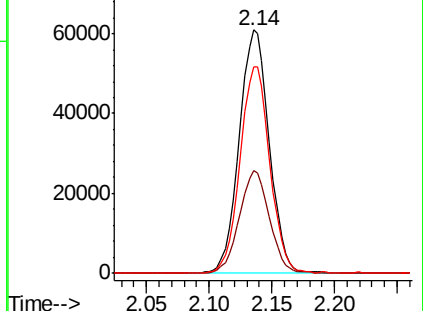
151 83.9 69.4 104.0



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: 4.786 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

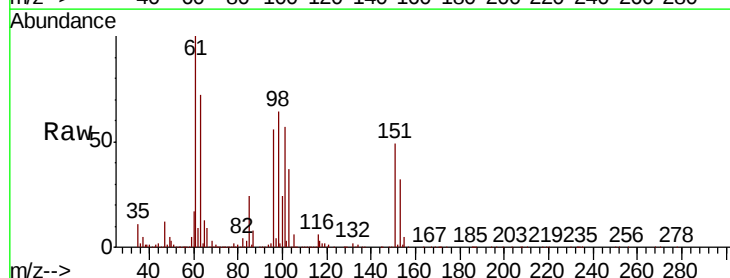
Tgt Ion: 96 Resp: 86757

Ion Ratio Lower Upper

96 100

61 178.7 116.3 215.9

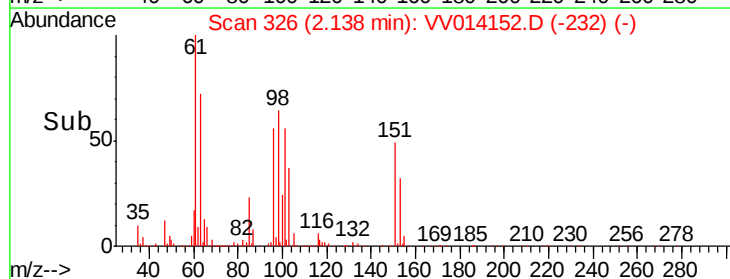
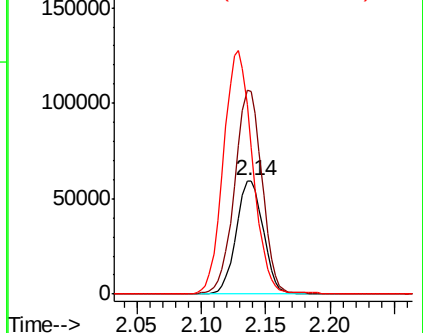
63 129.1 96.7 179.7

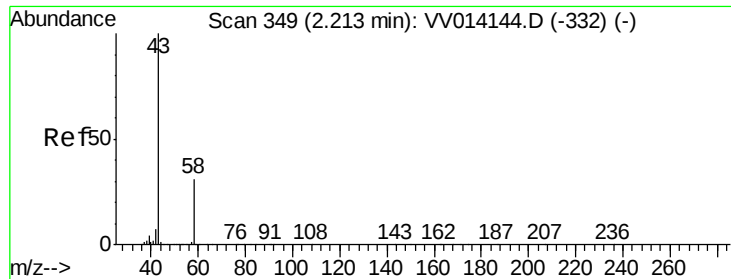


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 55.097 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

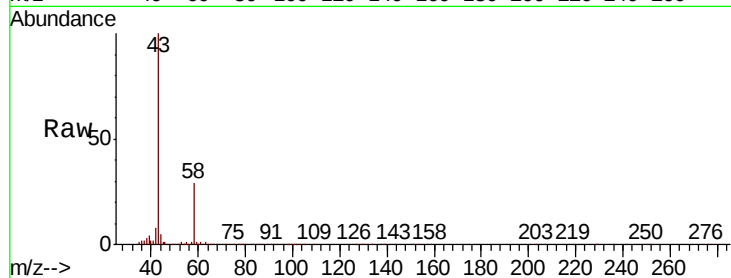
VSTD00560

Tot Ion: 43 Resp: 186902

Ion Ratio Lower Upper

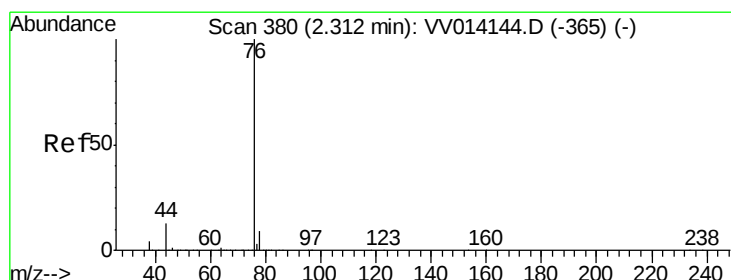
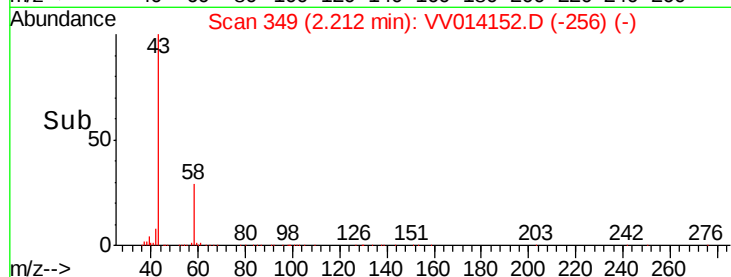
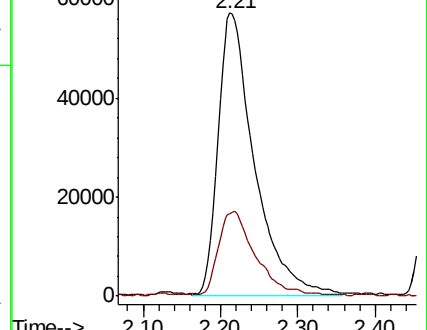
43 100

58 28.9 0.0 27.2#



Abundance Ion 43.05 (42.75 to 43.75): VV014144.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV014144.D (-332) (-)



#14

Carbon disulfide

Concen: 4.729 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014152.D

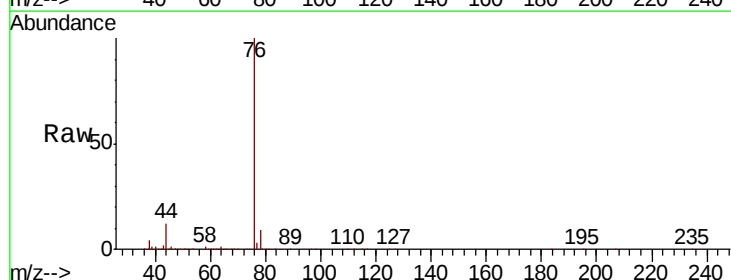
Acq: 20 Dec 2019 15:30

Tgt Ion: 76 Resp: 197882

Ion Ratio Lower Upper

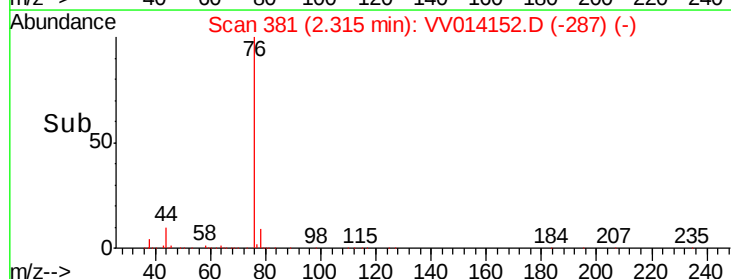
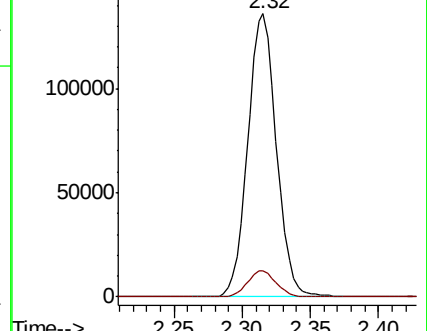
76 100

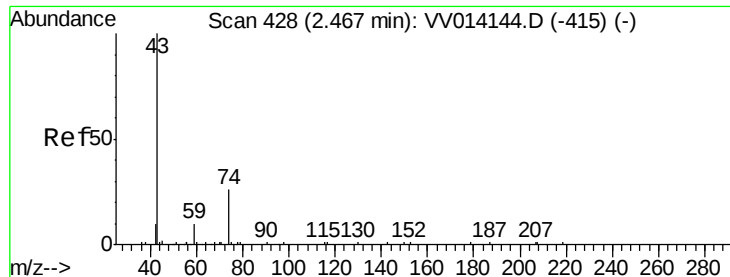
78 9.2 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV014144.D (-365) (-)

Ion 78.00 (77.70 to 78.70): VV014144.D (-365) (-)





#15

Methvl Acetate

Concen: 6.039 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

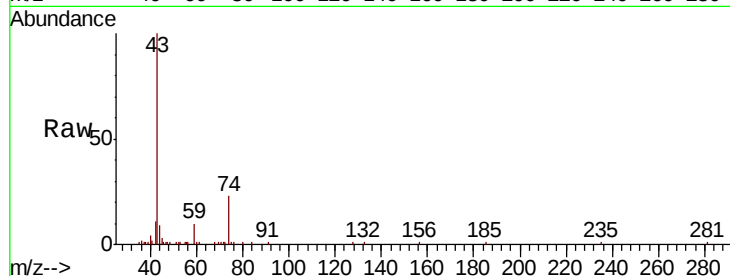
VSTD00560

Tot Ion: 43 Resp: 45862

Ion Ratio Lower Upper

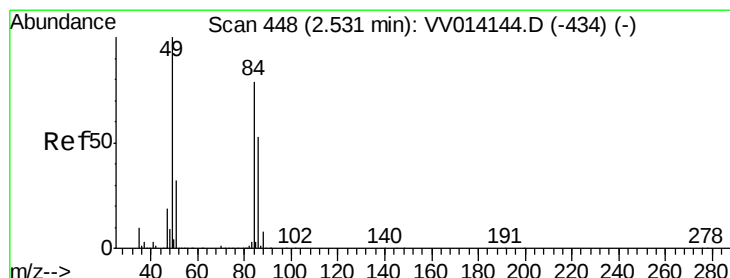
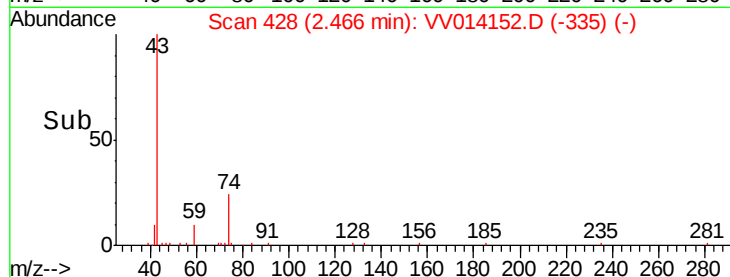
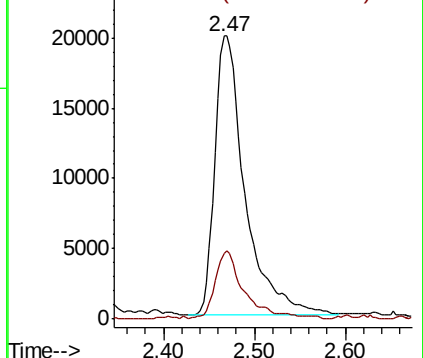
43 100

74 22.5 20.5 30.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.105 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

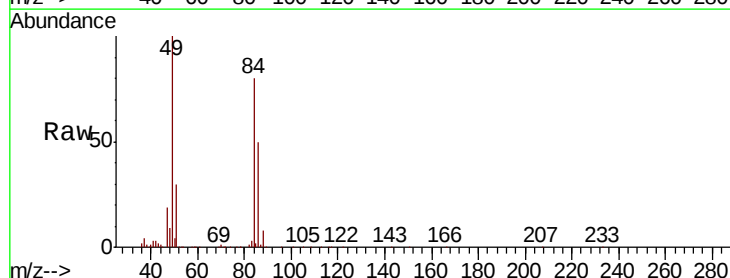
Tgt Ion: 84 Resp: 126749

Ion Ratio Lower Upper

84 100

86 62.7 44.0 81.6

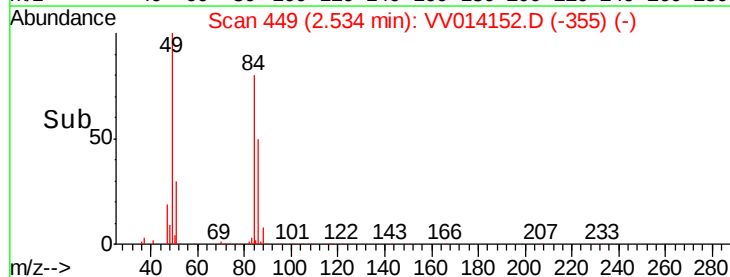
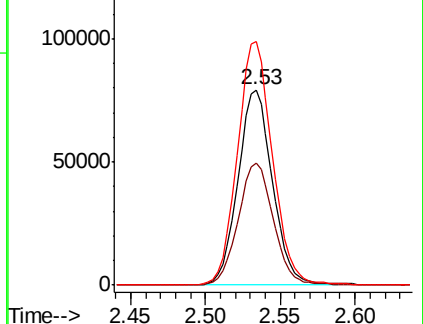
49 124.8 81.5 151.5

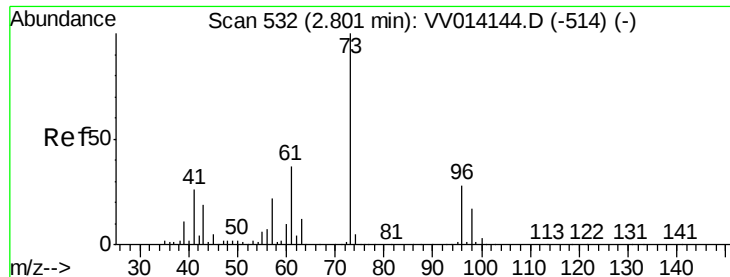


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

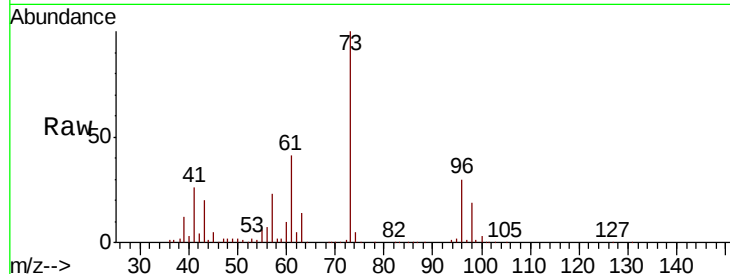




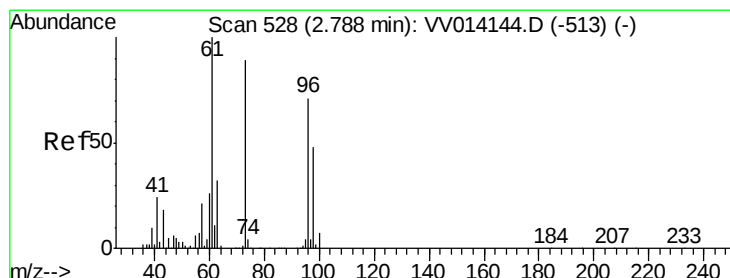
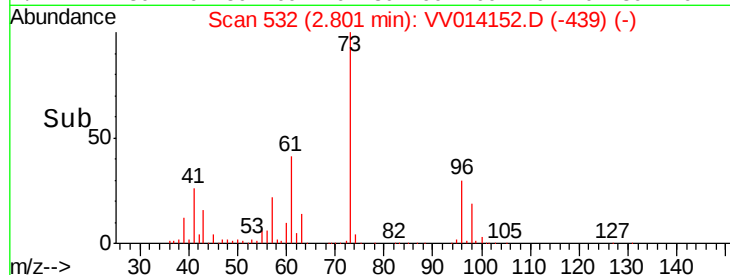
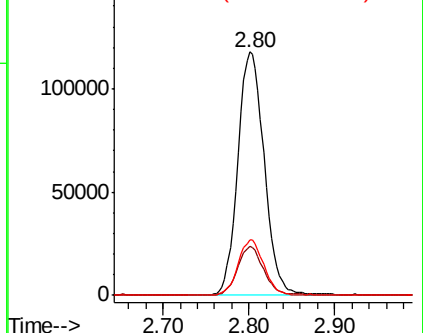
#17
Methvl tert-butvl Ether
Concen: 5.082 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tot Ion	Ratio	Lower	Upper
73	100		
43	19.8	15.5	23.3
57	22.3	17.5	26.3

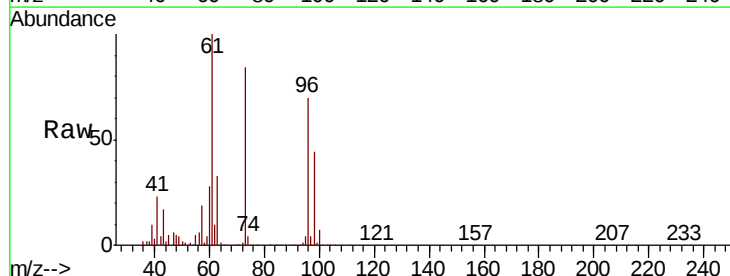


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

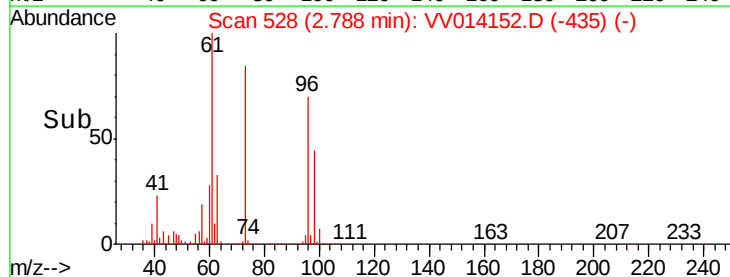
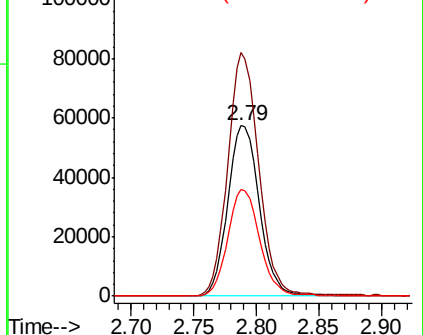


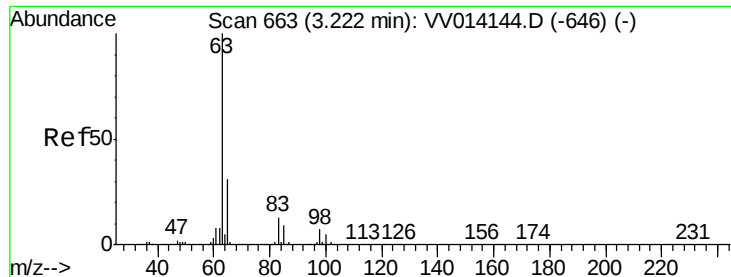
#18
trans-1,2-Dichloroethene
Concen: 4.923 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	142.8	95.1	176.7
98	62.5	46.5	86.3



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: 5.450 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

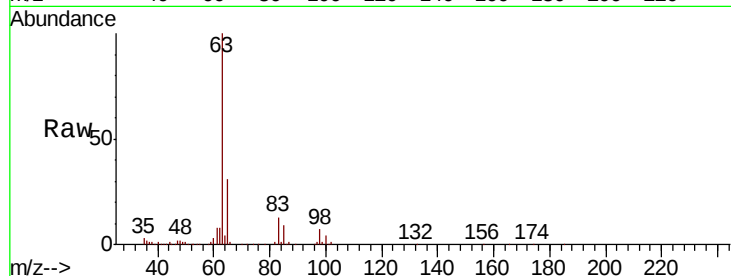
Tot Ion: 63 Resp: 222710

Ion Ratio Lower Upper

63 100

65 30.9 22.7 42.1

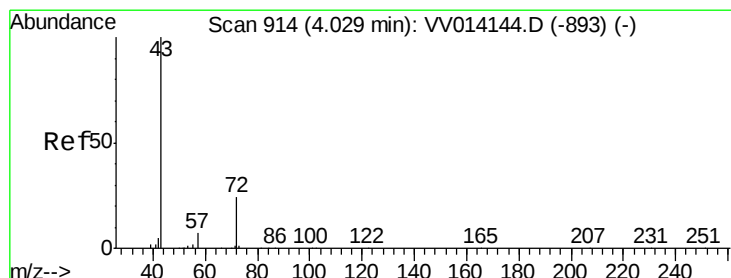
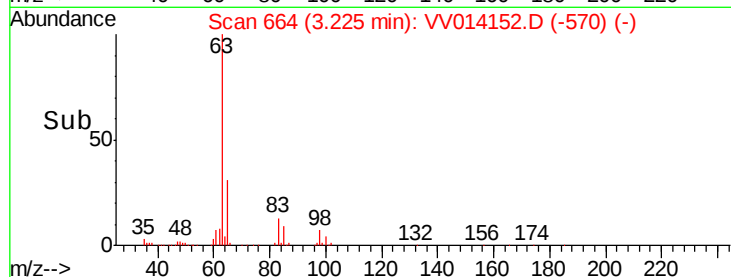
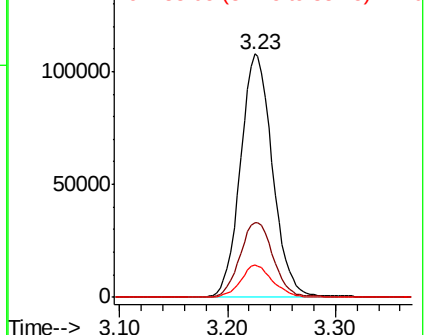
83 13.2 9.2 17.2



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: 54.143 ug/L

RT: 4.03 min Scan# 915

Delta R.T. 0.00 min

Lab File: VV014152.D

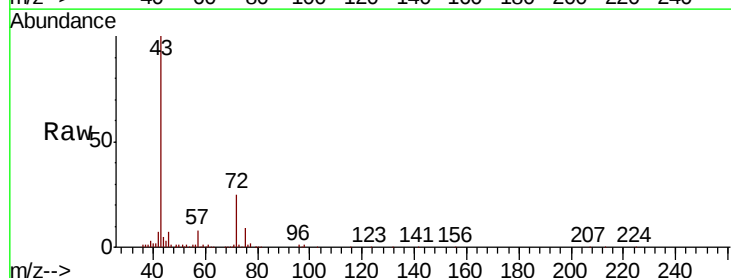
Acq: 20 Dec 2019 15:30

Tgt Ion: 43 Resp: 277620

Ion Ratio Lower Upper

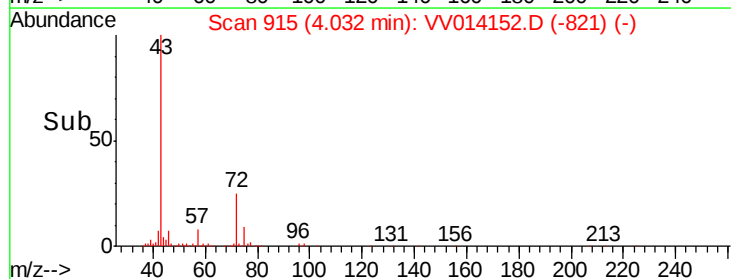
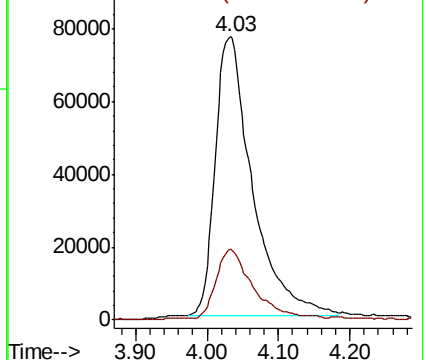
43 100

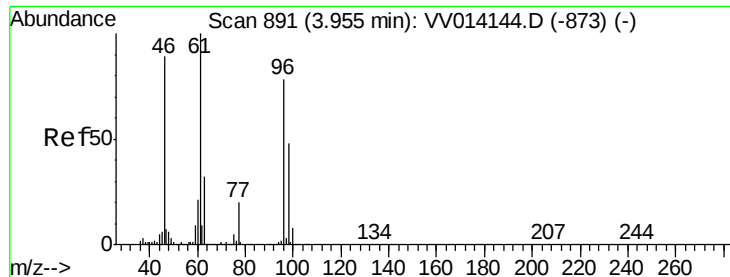
72 24.3 12.3 36.9



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



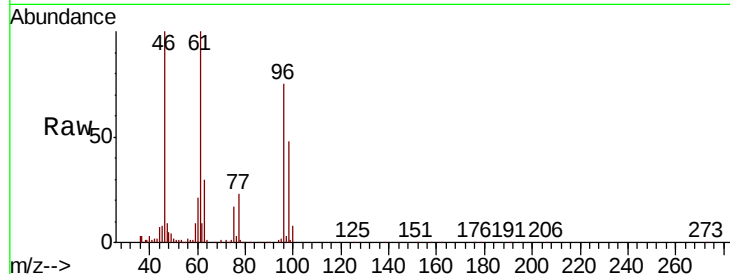


#22

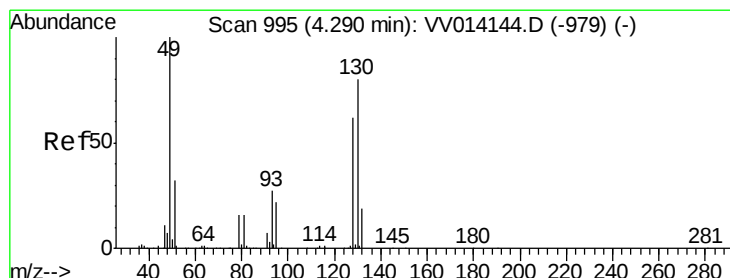
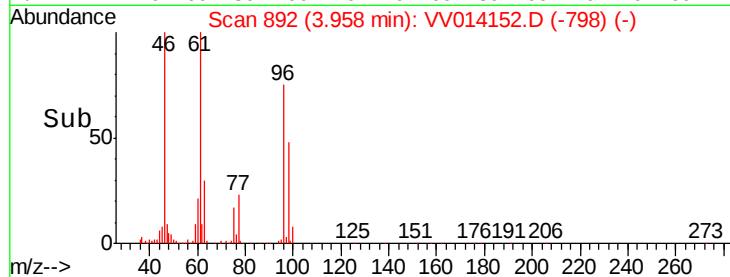
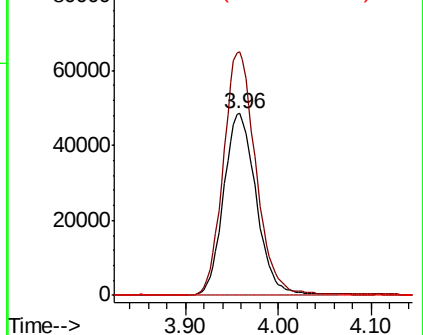
cis-1,2-Dichloroethene
Concen: 4.939 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tot Ion: 96 Resp: 118543
Ion Ratio Lower Upper
96 100
61 133.8 86.1 159.9
68 0.0 0.0 0.0



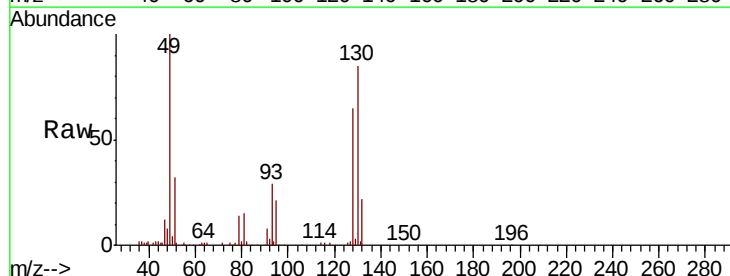
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



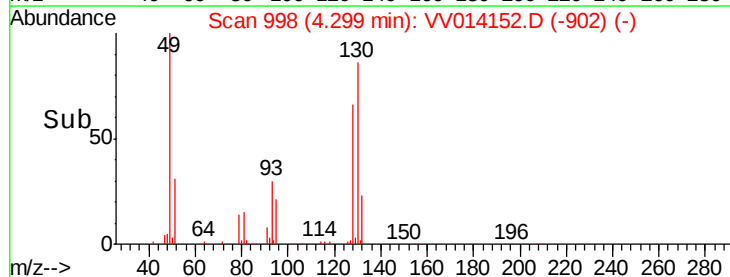
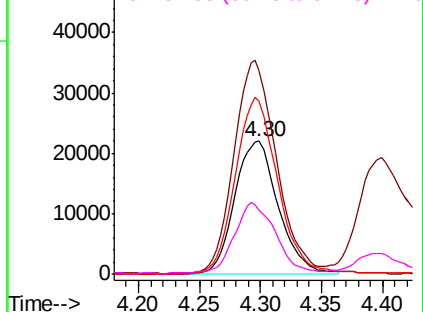
#23

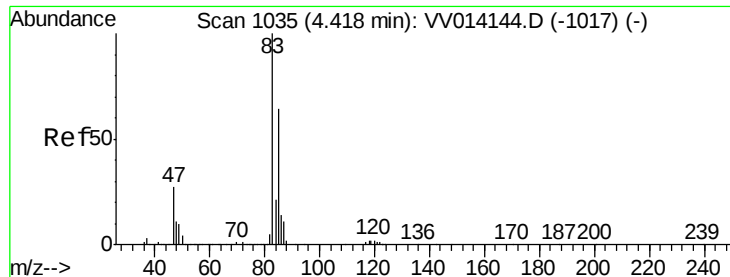
Bromochloromethane
Concen: 5.152 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.01 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Tgt Ion: 128 Resp: 54336
Ion Ratio Lower Upper
128 100
49 153.2 100.1 185.9
130 130.0 89.0 165.4
51 48.6 36.3 54.5



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: 5.423 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampled :

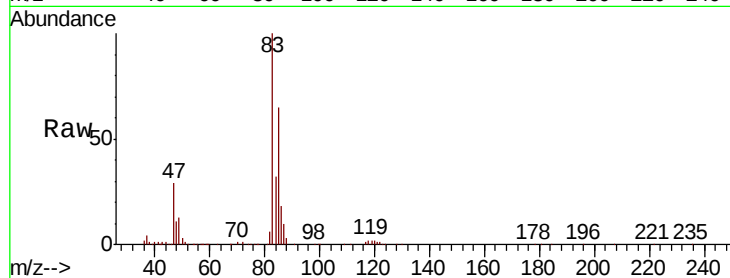
VSTD00560

Tot Ion: 83 Resp: 234944

Ion Ratio Lower Upper

83 100

85 64.6 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV014144.D (-1017) (-)

Ion 85.00 (84.70 to 85.70): VV014152.D (-942) (-)

4.42

100000

80000

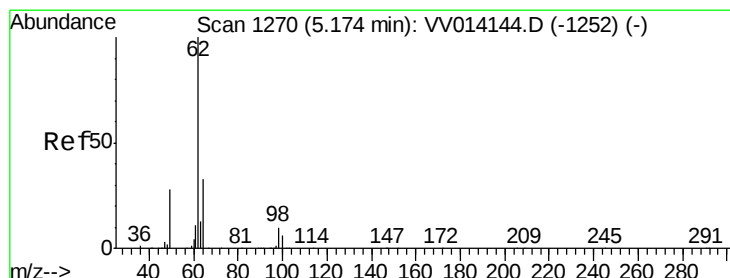
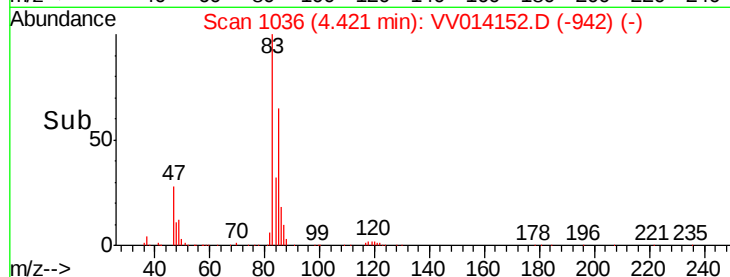
60000

40000

20000

0

Time-->



#27

1,2-Dichloroethane

Concen: 5.317 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV014152.D

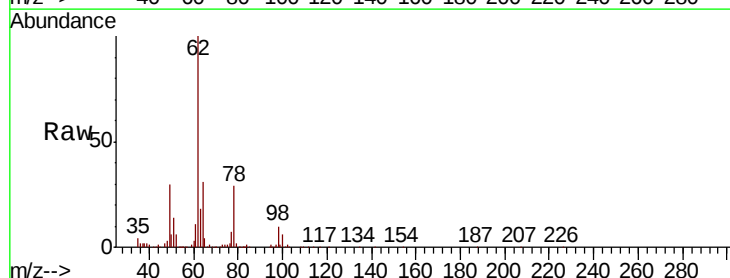
Acq: 20 Dec 2019 15:30

Tgt Ion: 62 Resp: 131814

Ion Ratio Lower Upper

62 100

98 9.6 8.2 12.2



Abundance Ion 62.00 (61.70 to 62.70): VV014144.D (-1252) (-)

Ion 98.05 (97.75 to 98.75): VV014152.D (-1177) (-)

5.18

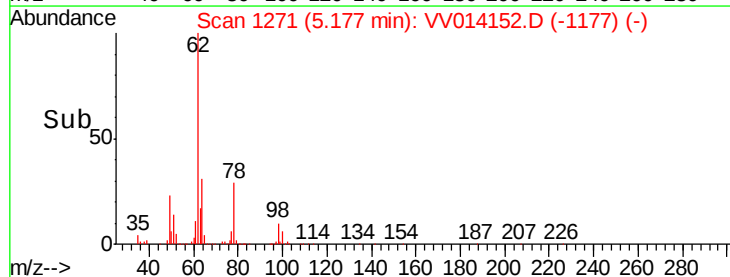
60000

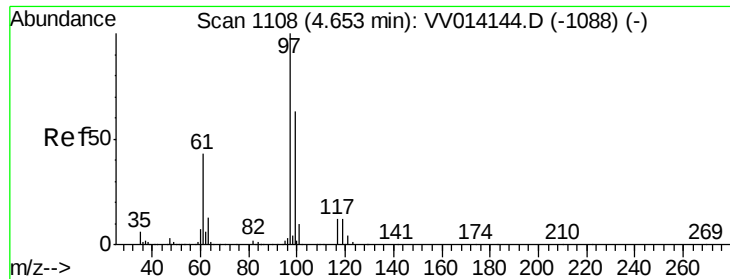
40000

20000

0

Time-->





#29

1,1,1-Trichloroethane

Concen: 5.104 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

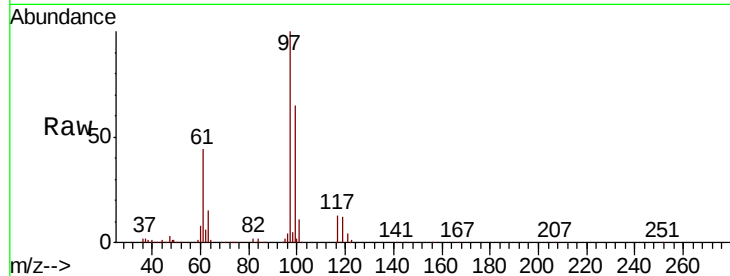
Tot Ion: 97 Resp: 194069

Ion Ratio Lower Upper

97 100

99 64.9 51.7 77.5

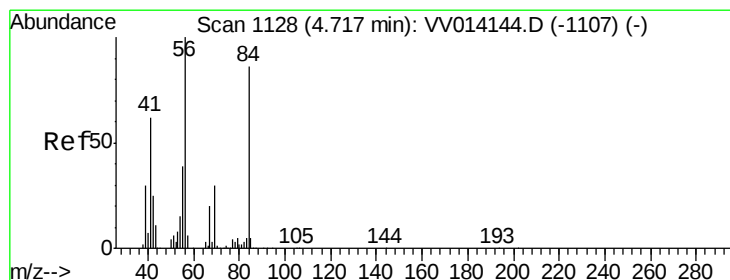
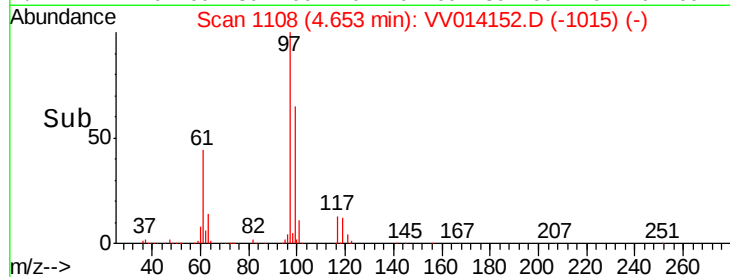
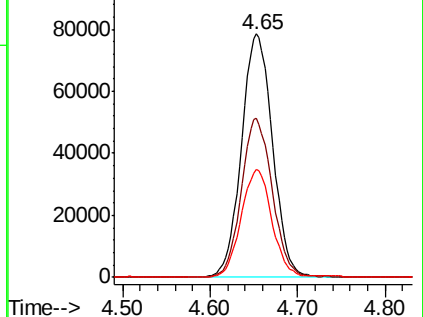
61 43.7 35.0 52.6



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: 4.600 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

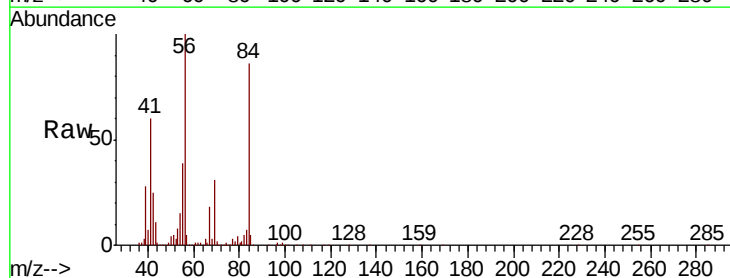
Tgt Ion: 56 Resp: 146129

Ion Ratio Lower Upper

56 100

69 30.7 24.1 36.1

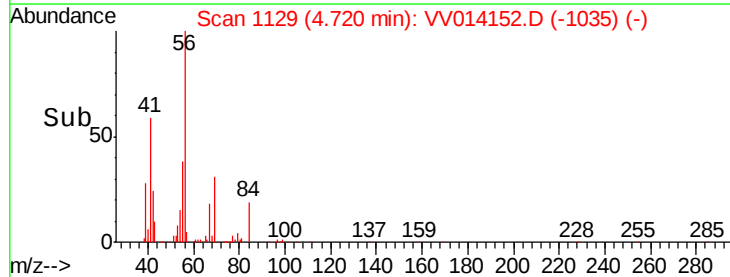
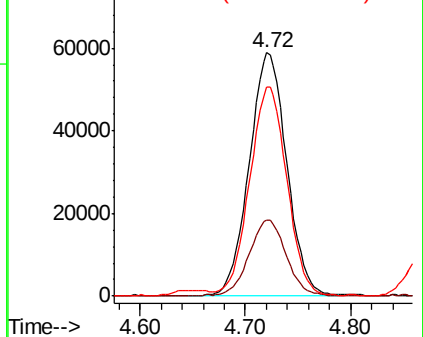
84 84.8 69.9 104.9

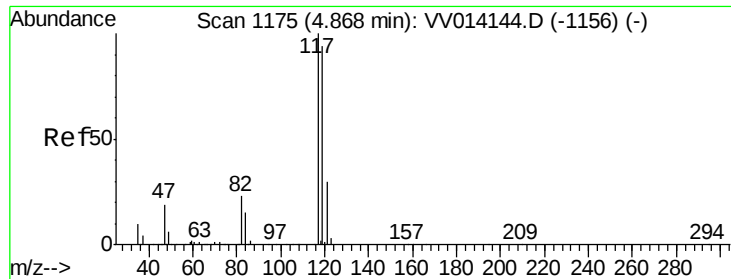


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

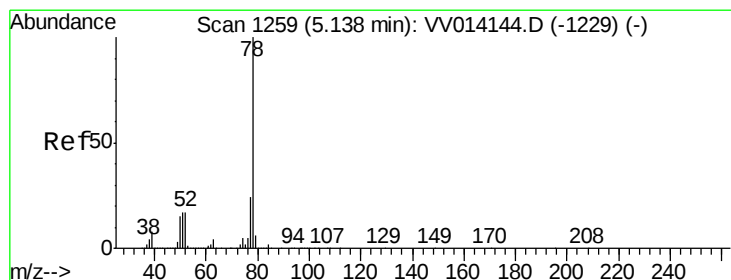
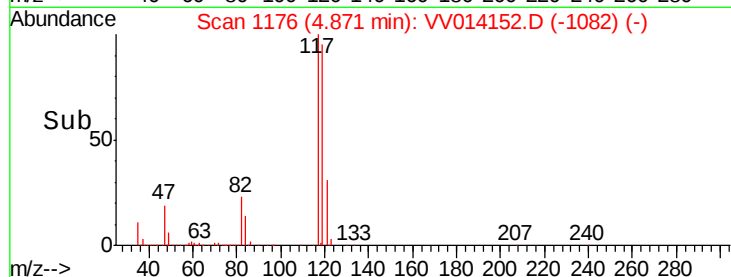
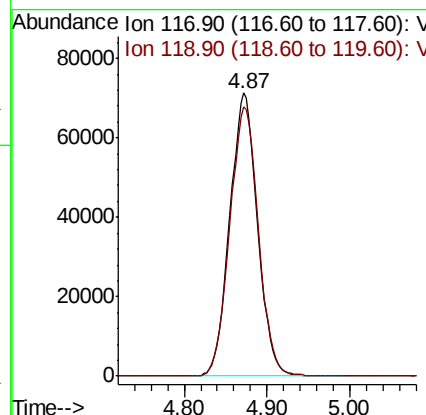
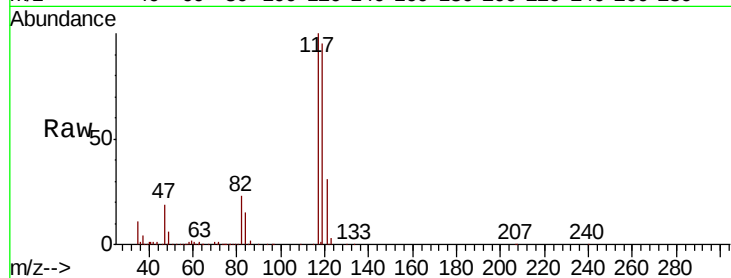




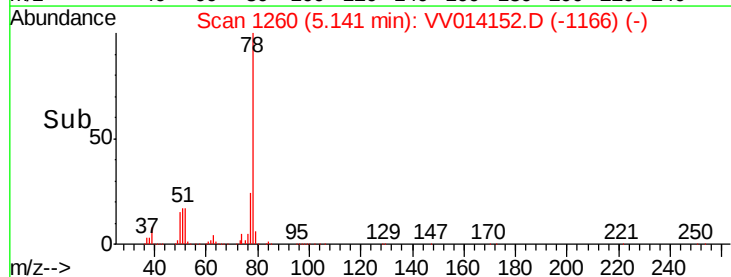
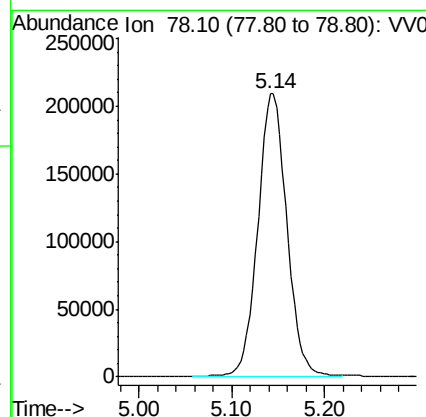
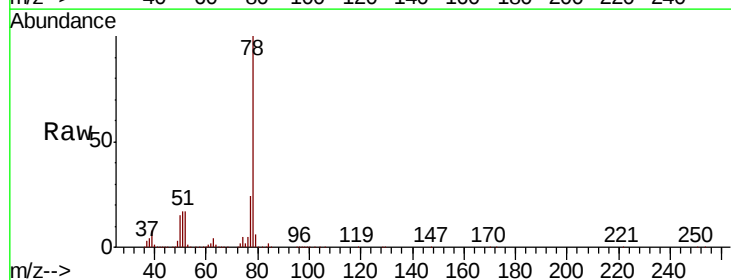
#31
Carbon tetrachloride
Concen: 4.954 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

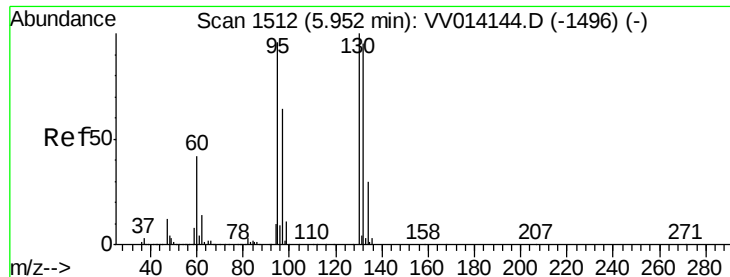
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tot Ion:117 Resp: 165709
Ion Ratio Lower Upper
117 100
119 98.2 76.8 115.2



#33
Benzene
Concen: 5.008 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30
Tgt Ion: 78 Resp: 456602





#34

Trichloroethene

Concen: 4.551 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

Tot Ion: 95 Resp: 114474

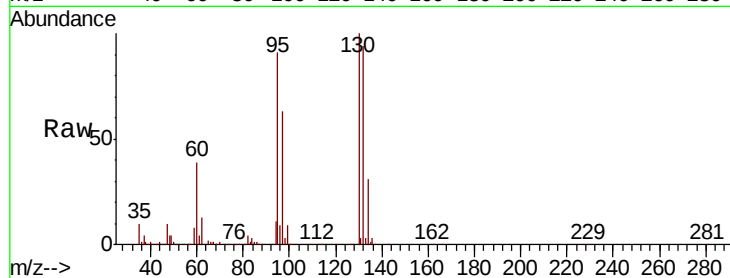
Ion Ratio Lower Upper

95 100

97 69.0 45.6 84.8

132 103.5 70.5 130.9

130 109.8 75.9 140.9

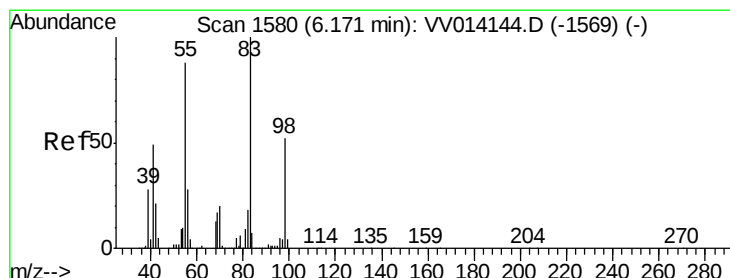
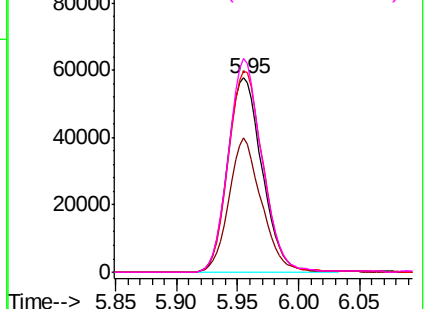
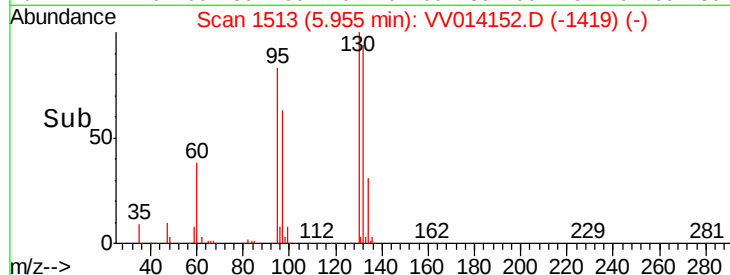


Abundance Ion 95.00 (94.70 to 95.70): VV014152.D (-1419) (-)

Ion 96.95 (96.65 to 97.65): VV014152.D (-1419) (-)

Ion 131.95 (131.65 to 132.65): VV014152.D (-1419) (-)

Ion 129.95 (129.65 to 130.65): VV014152.D (-1419) (-)



#35

Methylcyclohexane

Concen: 4.448 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

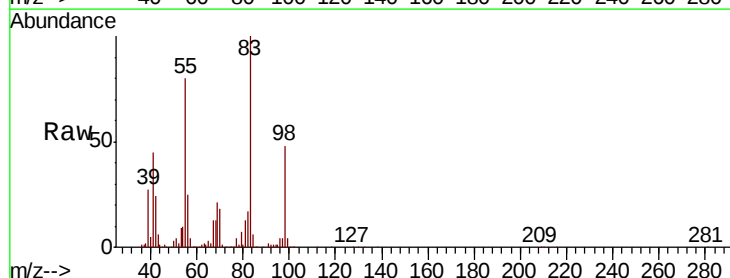
Tgt Ion: 83 Resp: 149272

Ion Ratio Lower Upper

83 100

55 82.4 60.3 90.5

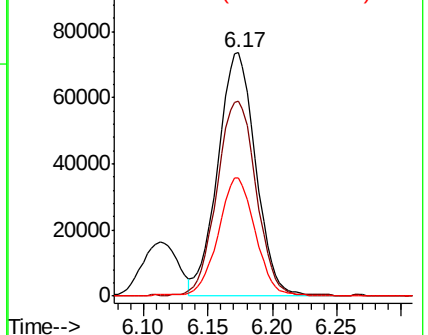
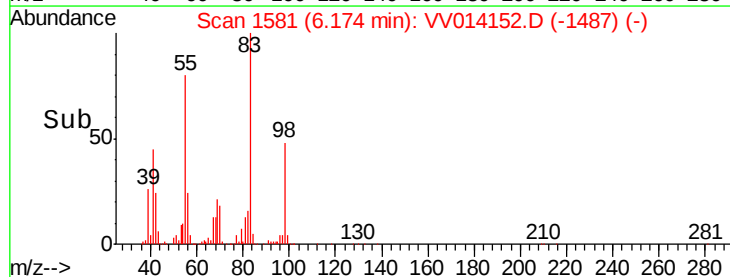
98 47.8 38.1 57.1

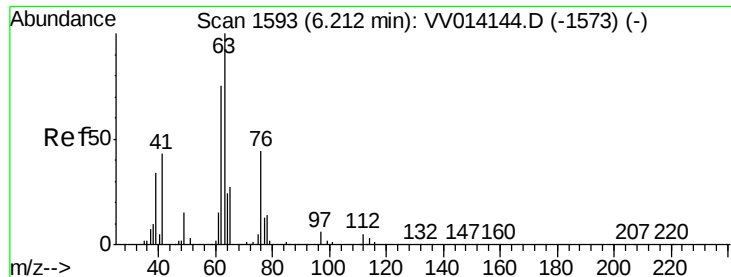


Abundance Ion 83.15 (82.85 to 83.85): VV014152.D (-1487) (-)

Ion 55.10 (54.80 to 55.80): VV014152.D (-1487) (-)

Ion 98.15 (97.85 to 98.85): VV014152.D (-1487) (-)





#37

1,2-Dichloropropane

Concen: 5.082 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

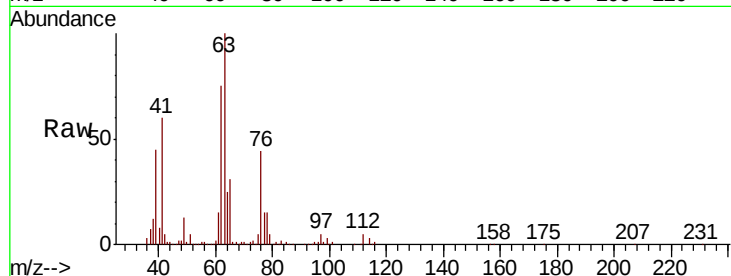
VSTD00560

Tot Ion: 63 Resp: 119094

Ion Ratio Lower Upper

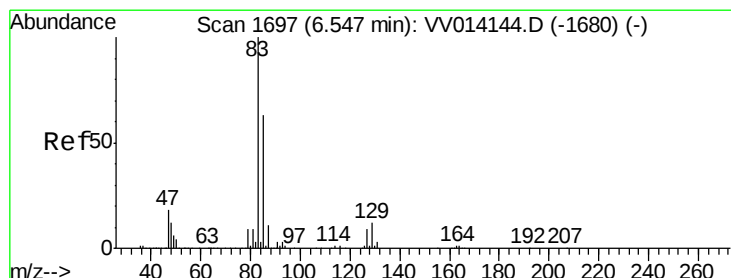
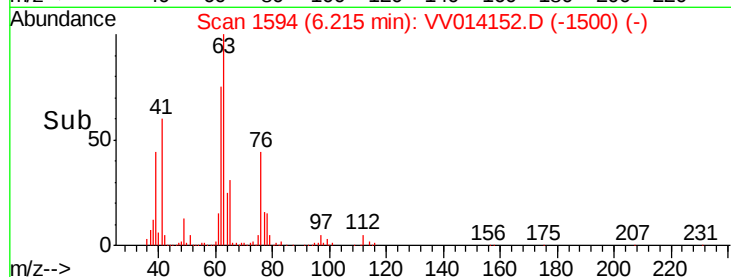
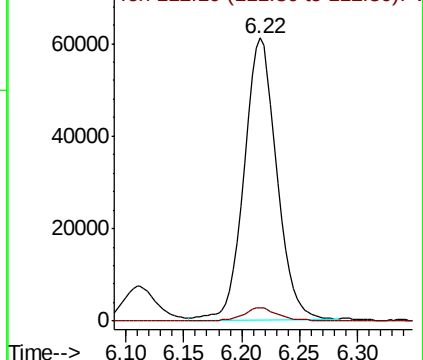
63 100

112 5.1 4.4 6.6



Abundance Ion 63.10 (62.80 to 63.80): VV014144.D (-1573) (-)

Ion 112.10 (111.80 to 112.80): VV014144.D (-1573) (-)



#38

Bromodichloromethane

Concen: 5.132 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

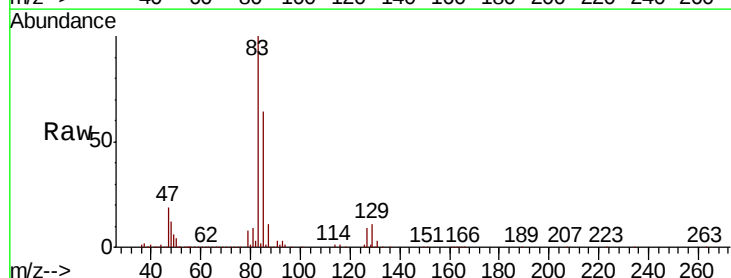
Tgt Ion: 83 Resp: 158669

Ion Ratio Lower Upper

83 100

85 64.2 46.1 85.5

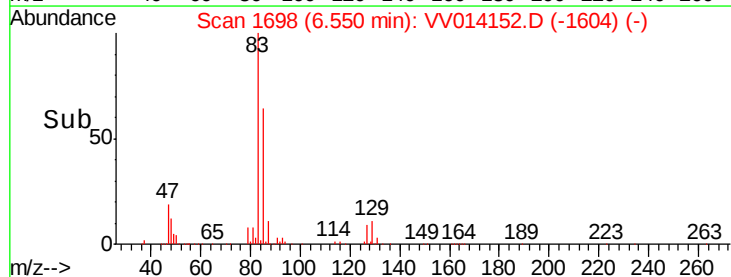
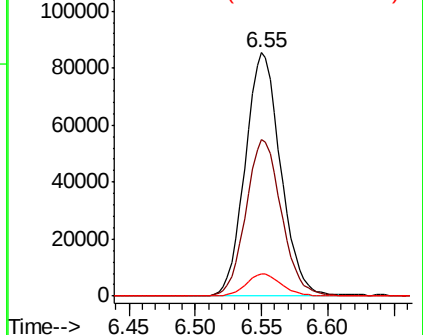
127 9.2 7.5 11.3

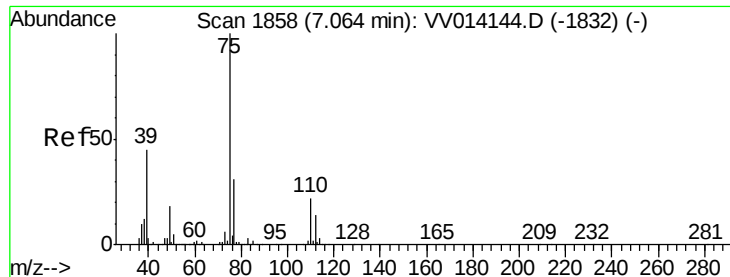


Abundance Ion 82.95 (82.65 to 83.65): VV014144.D (-1680) (-)

Ion 85.00 (84.70 to 85.70): VV014144.D (-1680) (-)

Ion 126.90 (126.60 to 127.60): VV014144.D (-1680) (-)

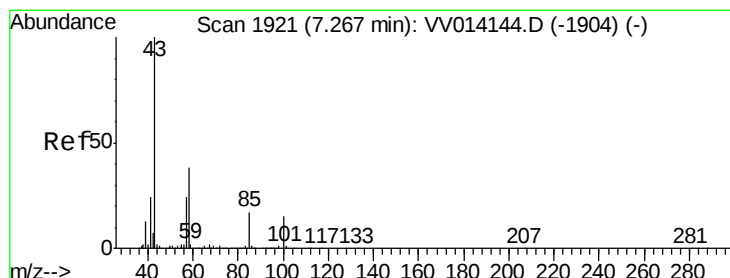
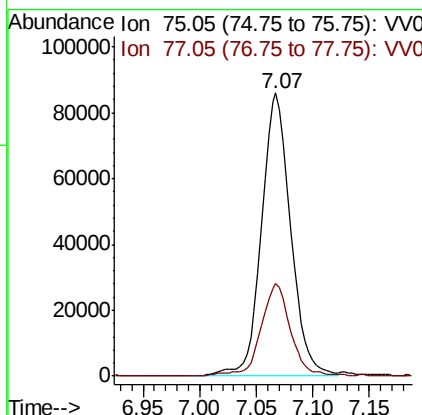
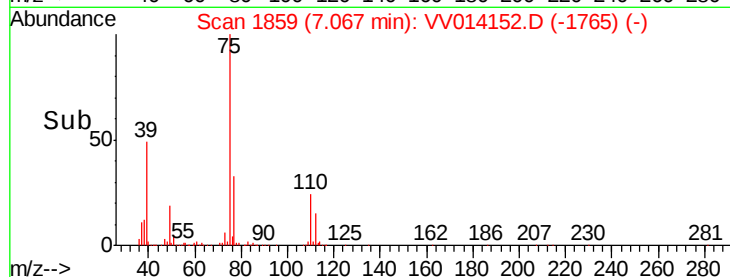
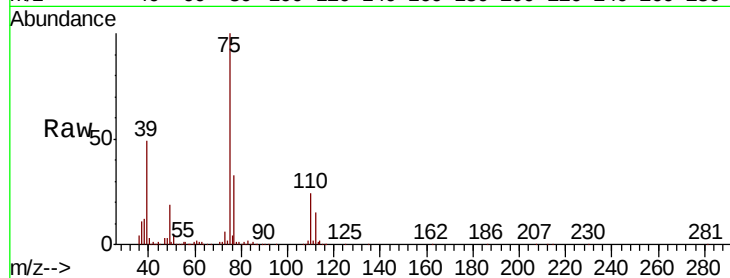




#39
 cis-1,3-Dichloropropene
 Concen: 4.639 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

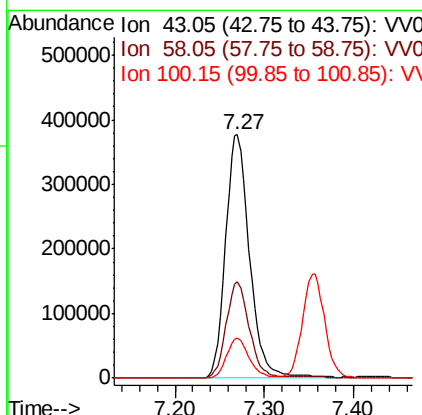
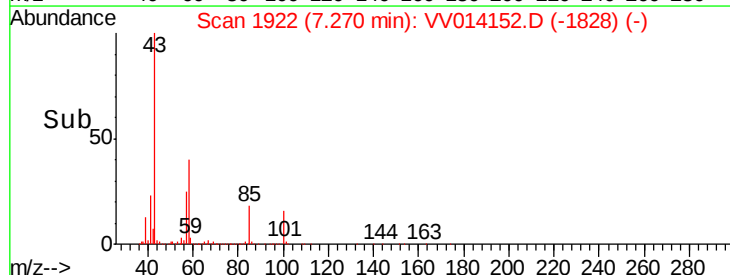
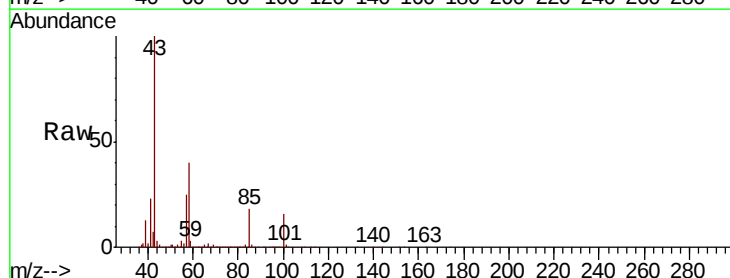
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

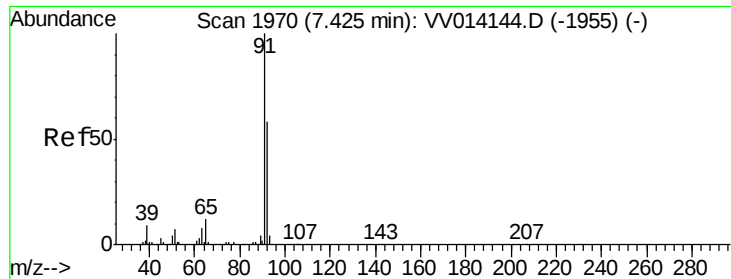
Tot Ion: 75 Resp: 154239
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 51.399 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Tgt Ion: 43 Resp: 702762
 Ion Ratio Lower Upper
 43 100
 58 38.1 32.3 48.5
 100 15.4 12.7 19.1





#42

Toluene

Concen: 4.816 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

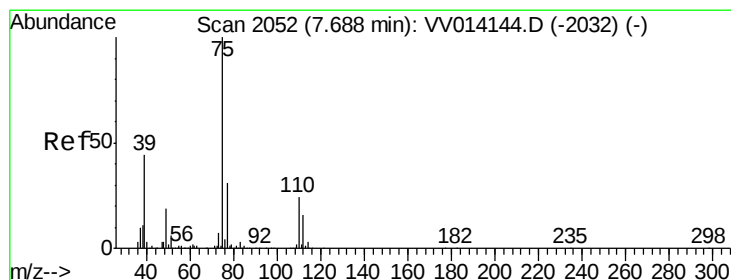
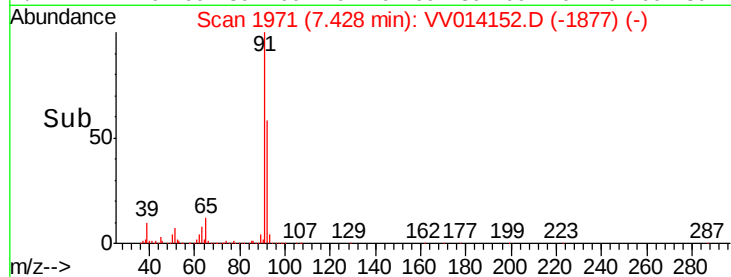
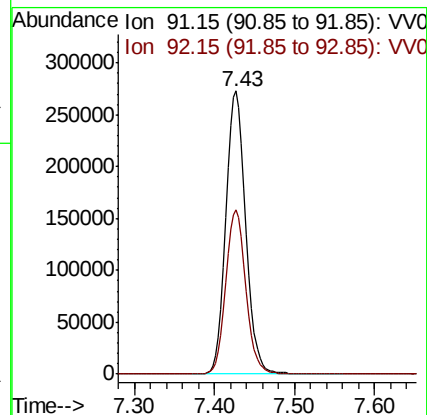
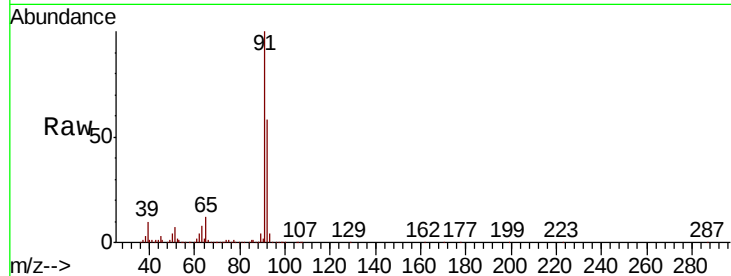
VSTD00560

Tot Ion: 91 Resp: 470993

Ion Ratio Lower Upper

91 100

92 57.9 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 4.877 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014152.D

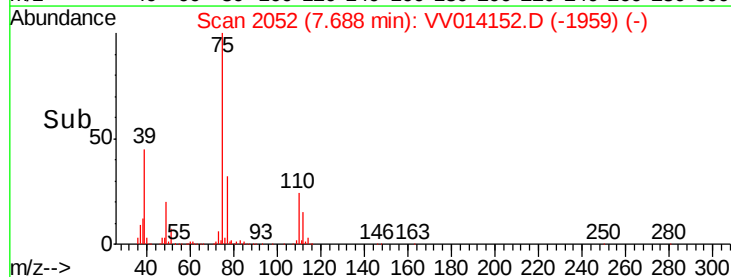
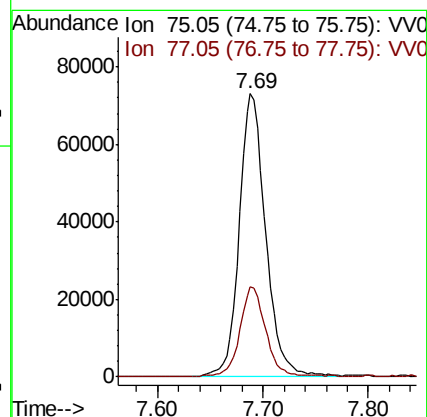
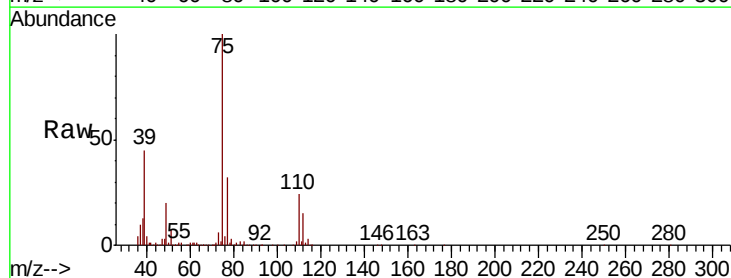
Acq: 20 Dec 2019 15:30

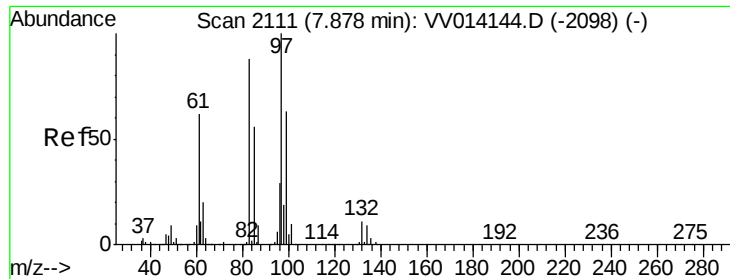
Tgt Ion: 75 Resp: 126940

Ion Ratio Lower Upper

75 100

77 31.7 23.0 42.8

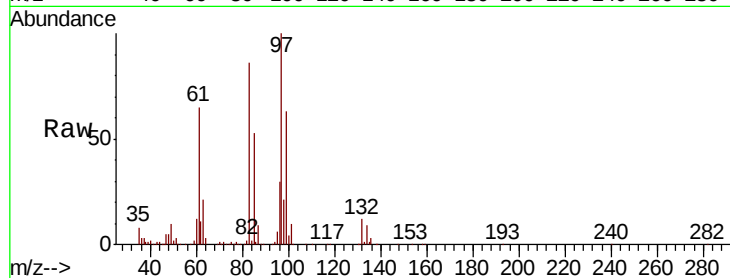




#45
 1,1,2-Trichloroethane
 Concen: 5.118 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tot Ion:	97	Resp:	85474
Ion	Ratio	Lower	Upper
97	100		
99	62.9	44.2	82.0
83	86.1	59.7	110.9
85	53.2	38.3	71.1



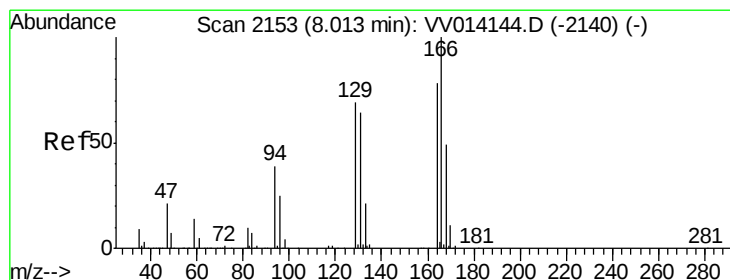
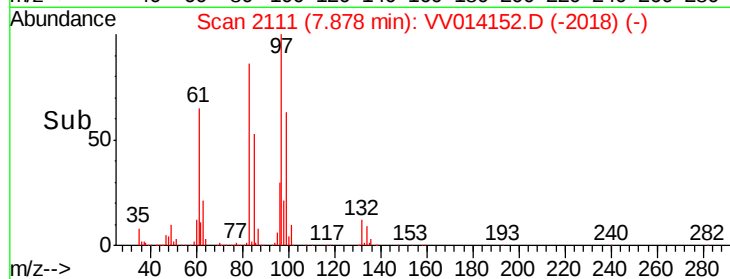
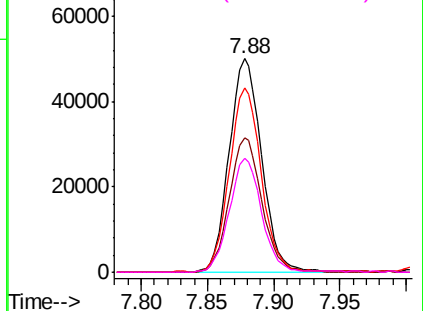
Abundance

Ion 96.95 (96.65 to 97.65): VV014152.D (-2018) (-)

Ion 99.05 (98.75 to 99.75): VV014152.D (-2018) (-)

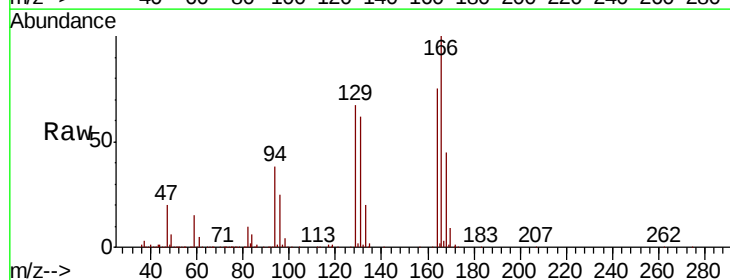
Ion 82.95 (82.65 to 83.65): VV014152.D (-2018) (-)

Ion 85.00 (84.70 to 85.70): VV014152.D (-2018) (-)



#47
 Tetrachloroethene
 Concen: 4.688 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Tgt Ion:	164	Resp:	102395
Ion	Ratio	Lower	Upper
164	100		
129	88.3	60.3	112.1
131	82.9	59.9	111.3
166	132.8	89.1	165.5



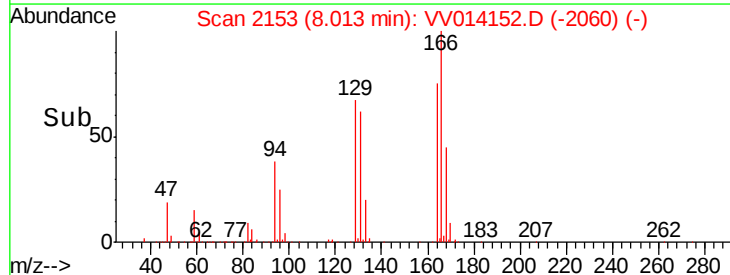
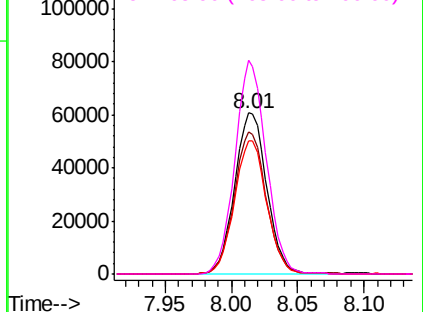
Abundance

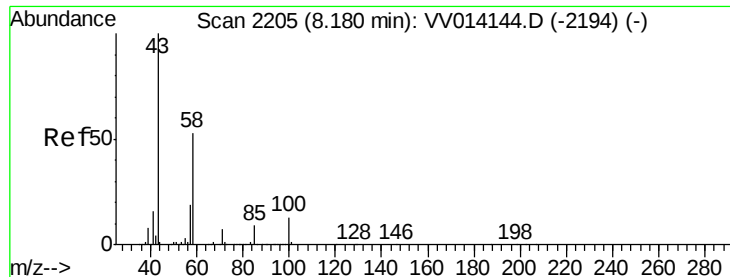
Ion 163.90 (163.60 to 164.60): VV014152.D (-2060) (-)

Ion 128.95 (128.65 to 129.65): VV014152.D (-2060) (-)

Ion 130.95 (130.65 to 131.65): VV014152.D (-2060) (-)

Ion 165.90 (165.60 to 166.60): VV014152.D (-2060) (-)

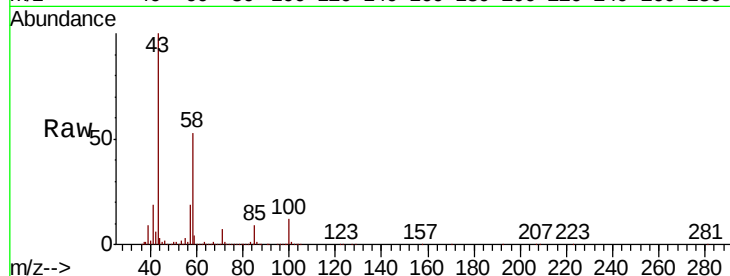




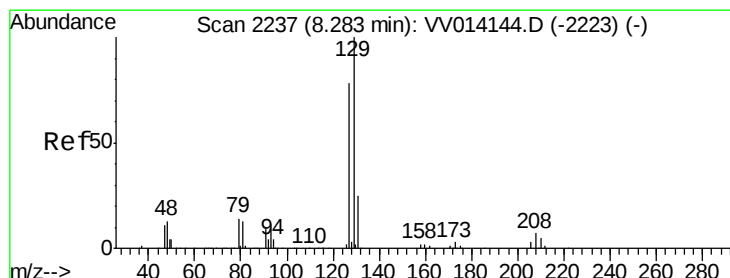
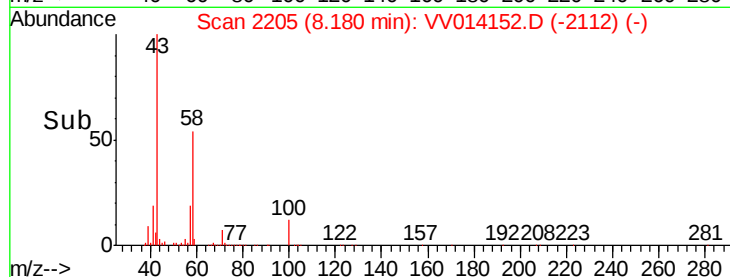
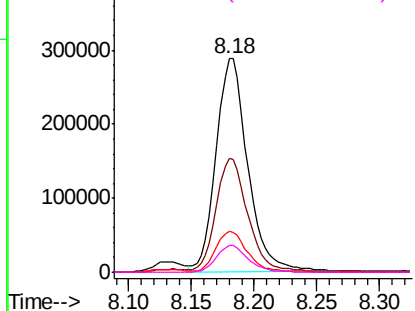
#48
2-Hexanone
Concen: 51.583 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tot Ion: 43 Resp: 503423
Ion Ratio Lower Upper
43 100
58 53.7 43.2 64.8
57 19.2 15.4 23.2
100 12.4 10.4 15.6

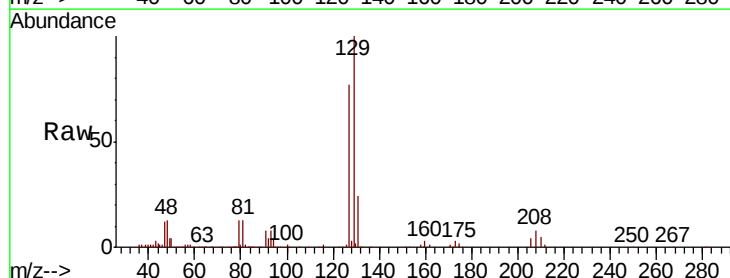


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

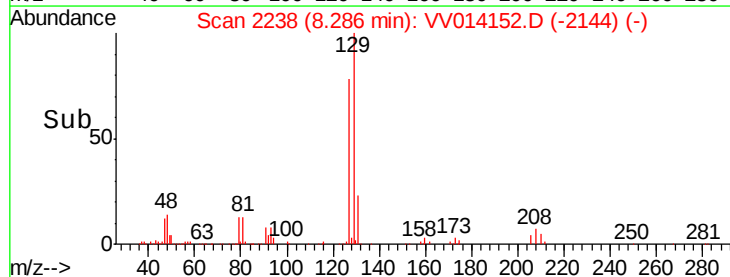
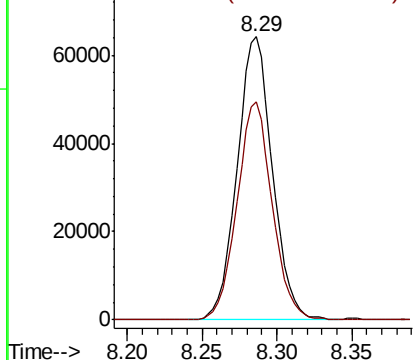


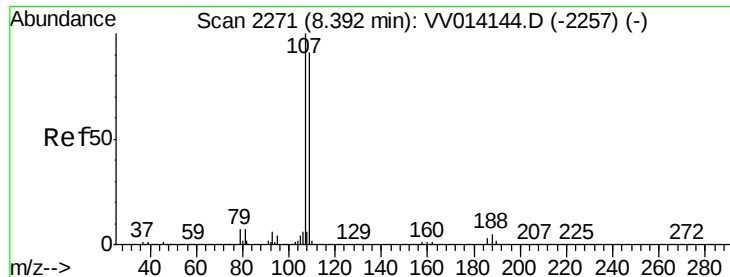
#49
Dibromochloromethane
Concen: 4.917 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014152.D
Acq: 20 Dec 2019 15:30

Tgt Ion: 129 Resp: 105322
Ion Ratio Lower Upper
129 100
127 77.2 55.7 103.5



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

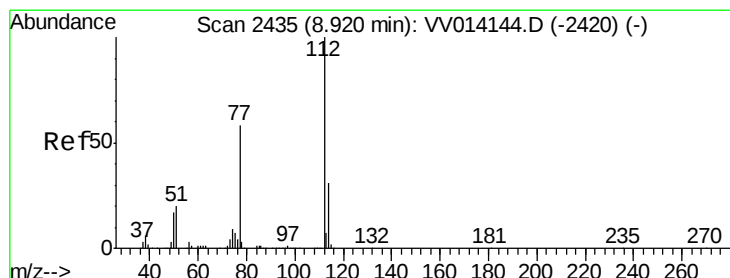
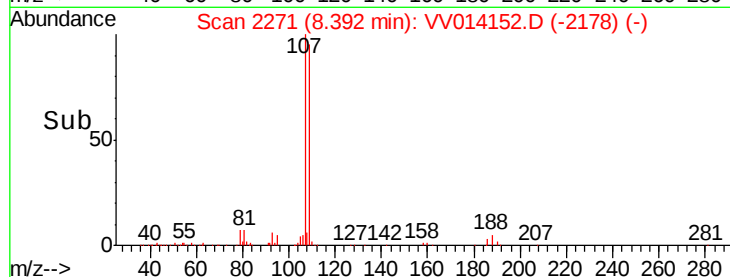
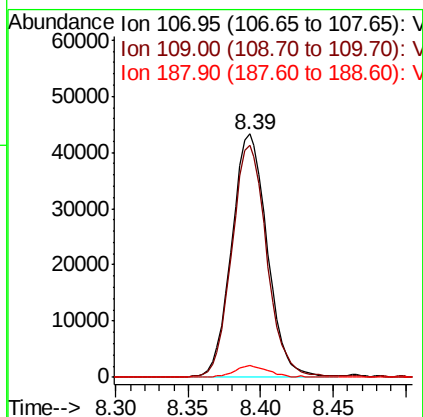
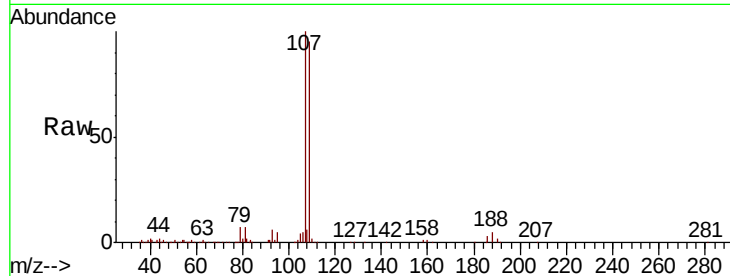




#50
 1,2-Dibromoethane
 Concen: 4.893 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

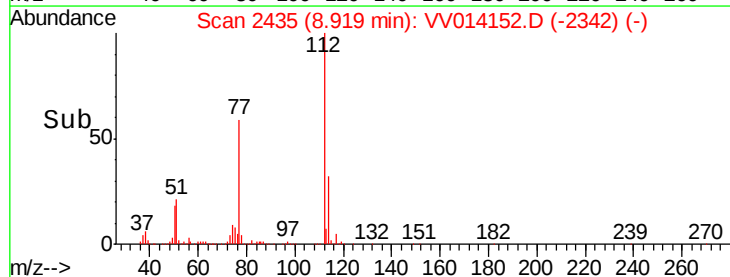
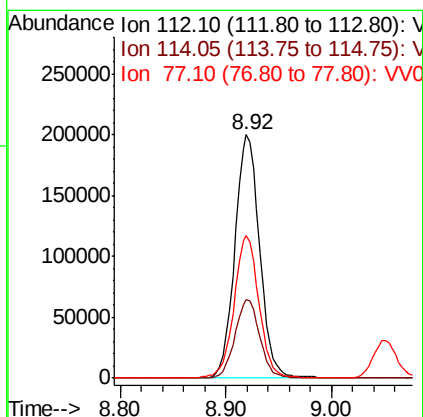
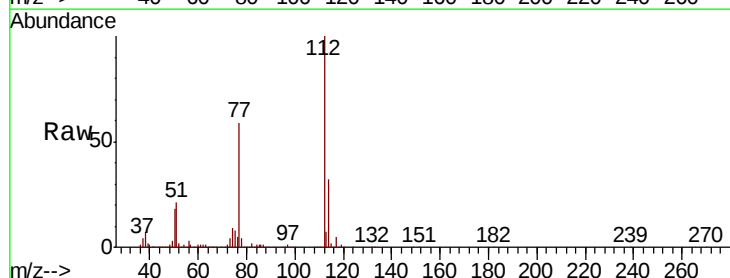
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

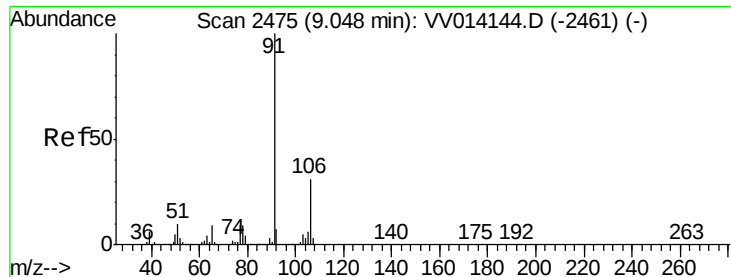
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	65.2	121.0
188	4.8	4.2	6.2



#51
 Chlorobenzene
 Concen: 4.768 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	21.8	40.6
77	58.7	44.2	66.4





#52

Ethylbenzene

Concen: 4.868 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

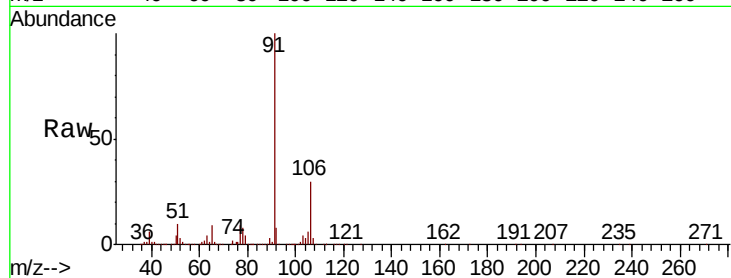
VSTD00560

Tot Ion: 91 Resp: 517174

Ion Ratio Lower Upper

91 100

106 30.1 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV014144.D (-2461) (-)

Ion 106.15 (105.85 to 106.85): VV014144.D (-2461) (-)

9.05

300000

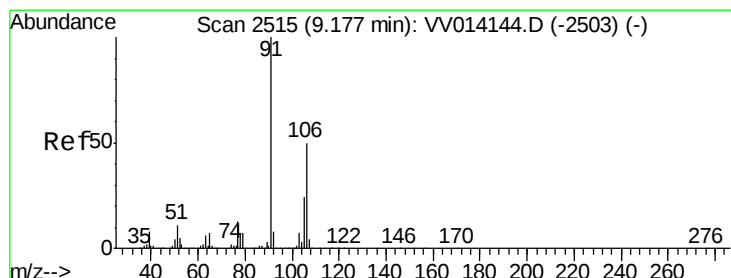
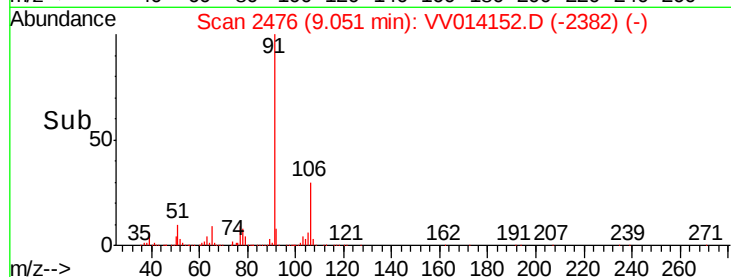
200000

100000

0

Time-->

9.00 9.10



#53

m,p-xylene

Concen: 4.960 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014152.D

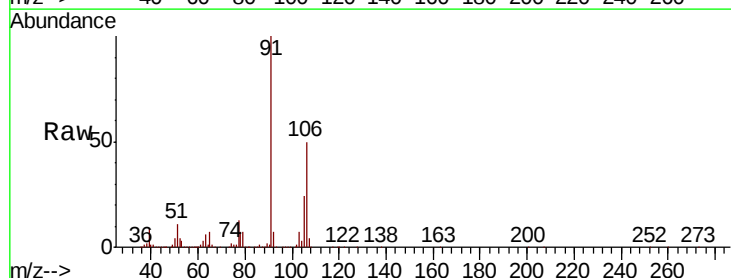
Acq: 20 Dec 2019 15:30

Tgt Ion: 106 Resp: 200905

Ion Ratio Lower Upper

106 100

91 200.4 139.9 259.9



Abundance Ion 106.15 (105.85 to 106.85): VV014144.D (-2503) (-)

Ion 91.15 (90.85 to 91.85): VV014144.D (-2503) (-)

9.18

250000

200000

150000

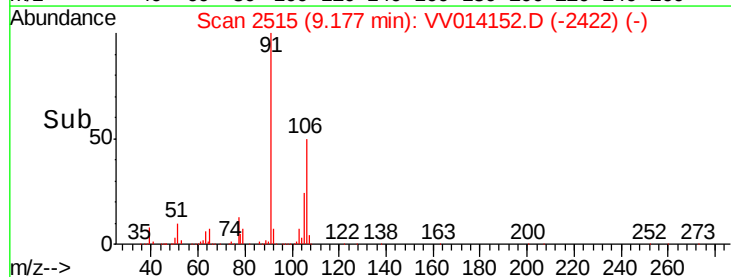
100000

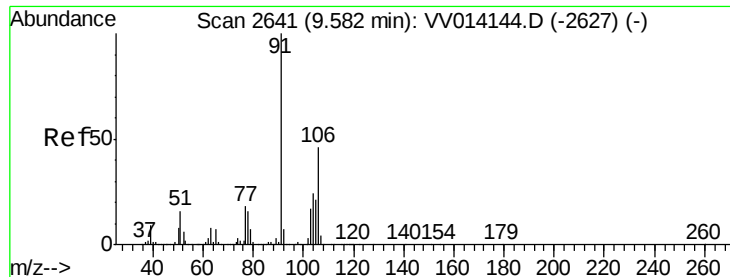
50000

0

Time-->

9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 4.849 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

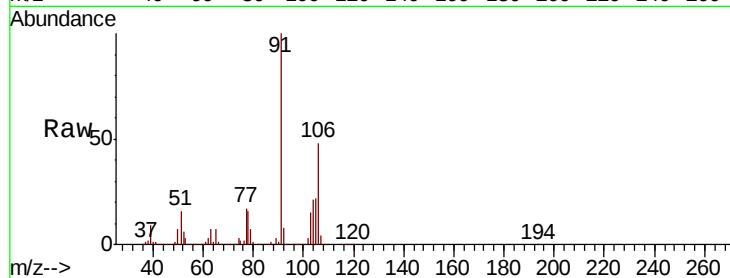
VSTD00560

Tot Ion:106 Resp: 191741

Ion Ratio Lower Upper

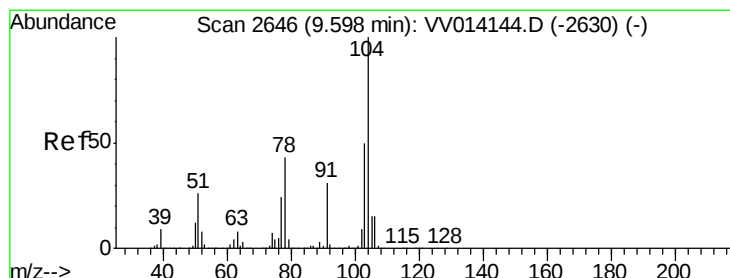
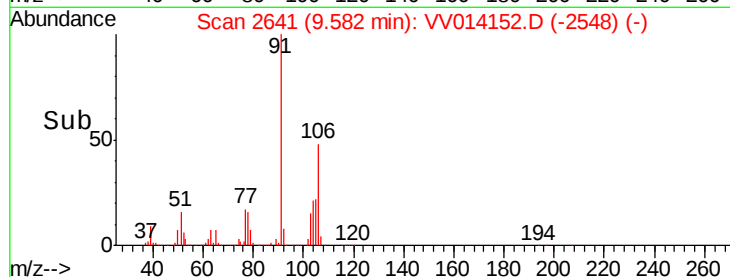
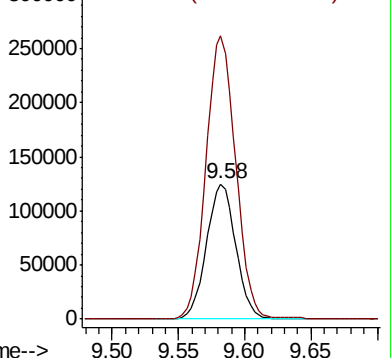
106 100

91 209.7 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.086 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV014152.D

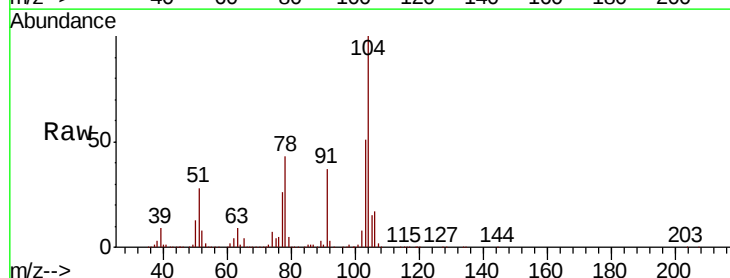
Acq: 20 Dec 2019 15:30

Tgt Ion:104 Resp: 347231

Ion Ratio Lower Upper

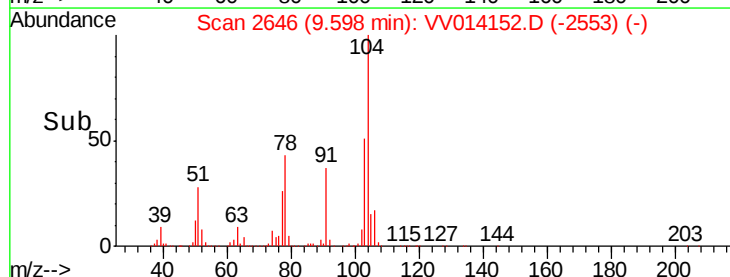
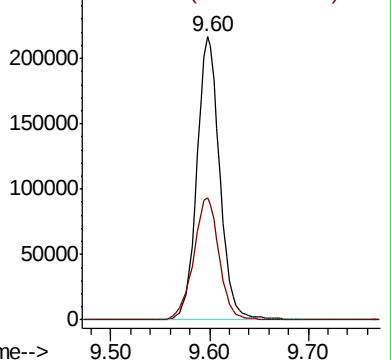
104 100

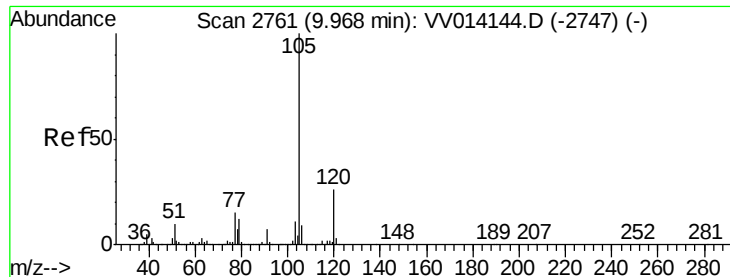
78 43.2 31.0 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.908 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

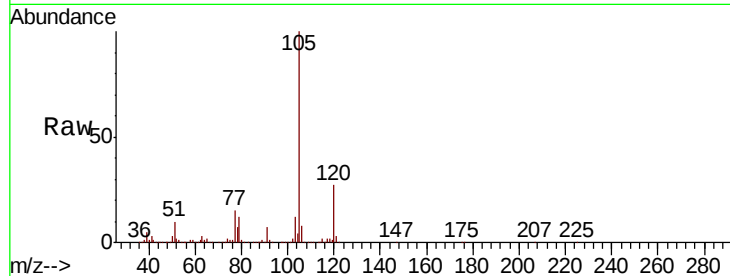
Tot Ion:105 Resp: 528877

Ion Ratio Lower Upper

105 100

120 26.4 21.3 31.9

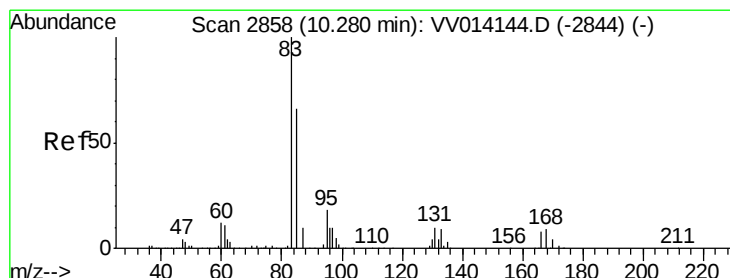
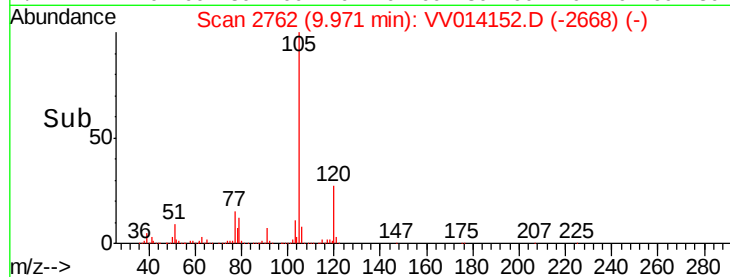
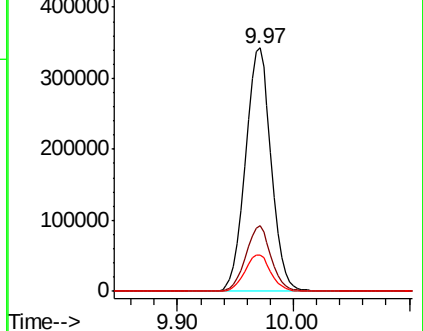
77 15.2 12.1 18.1



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: 5.708 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

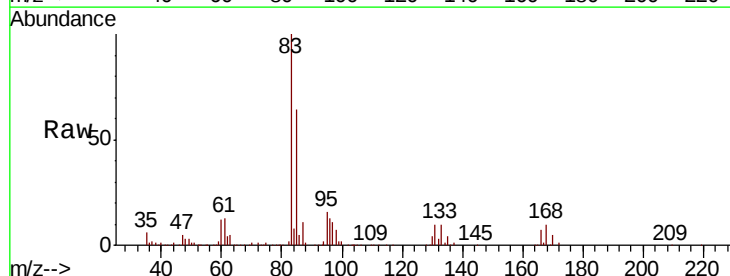
Tgt Ion: 83 Resp: 104733

Ion Ratio Lower Upper

83 100

85 63.8 45.1 83.7

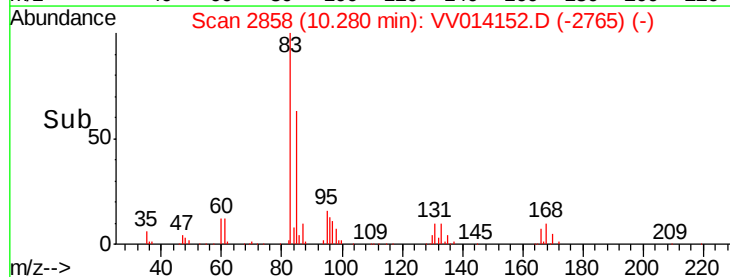
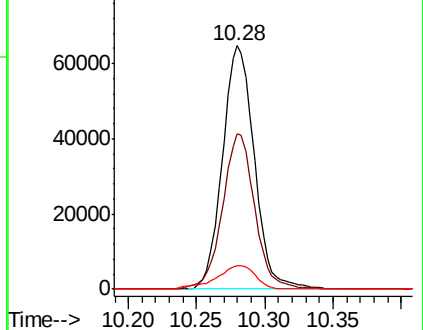
131 9.6 9.3 13.9

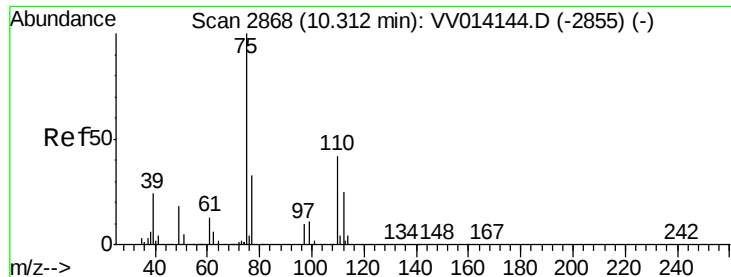


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.217 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

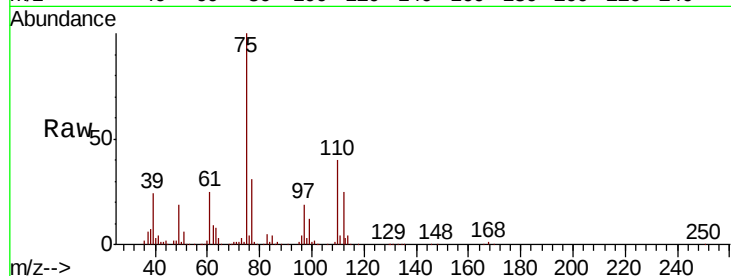
VSTD00560

Tot Ion: 75 Resp: 75036

Ion Ratio Lower Upper

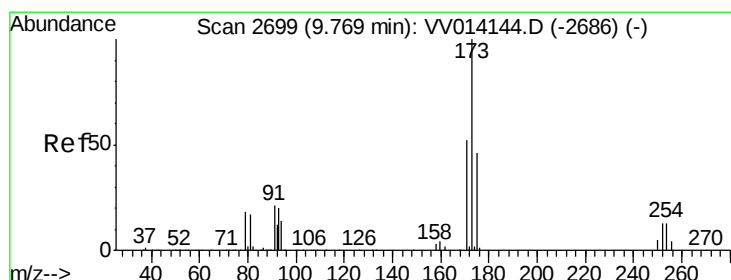
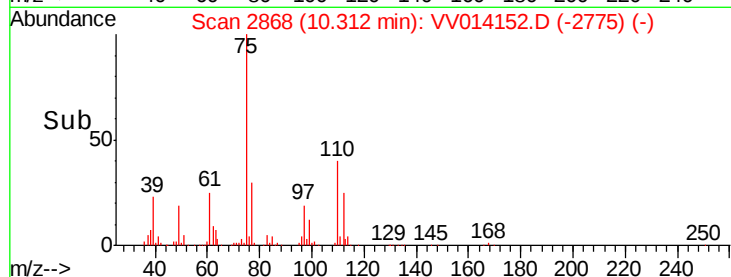
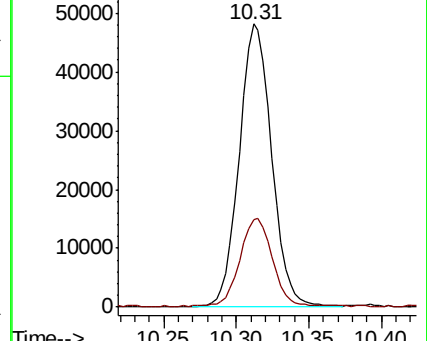
75 100

77 30.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#61

Bromoform

Concen: 5.003 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

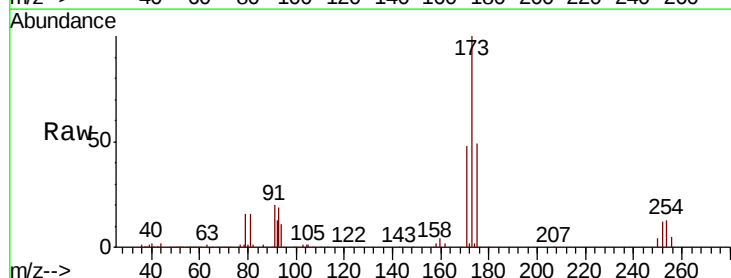
Tgt Ion: 173 Resp: 63748

Ion Ratio Lower Upper

173 100

175 48.8 39.1 58.7

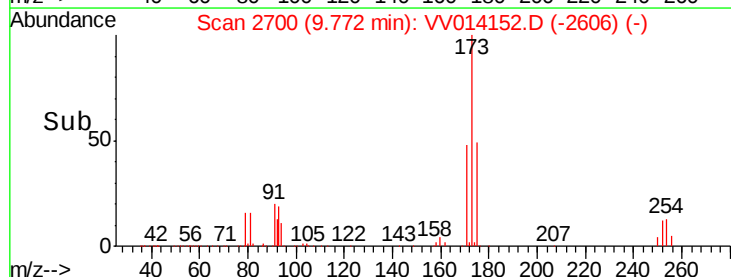
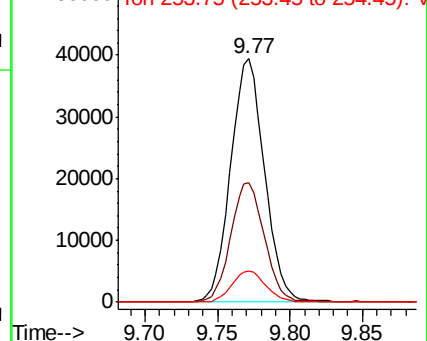
254 12.6 10.4 15.6

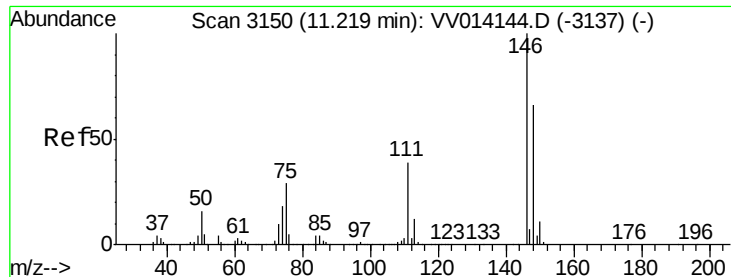


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 4.813 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

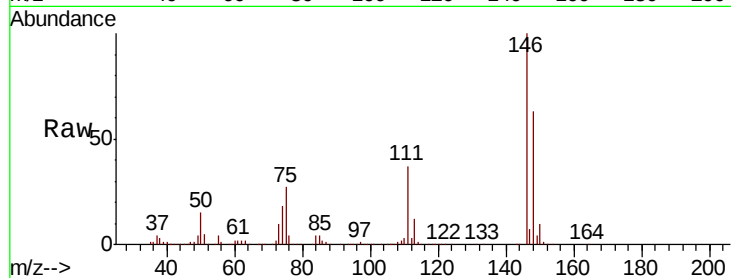
Tot Ion:146 Resp: 283060

Ion Ratio Lower Upper

146 100

111 37.3 25.6 47.6

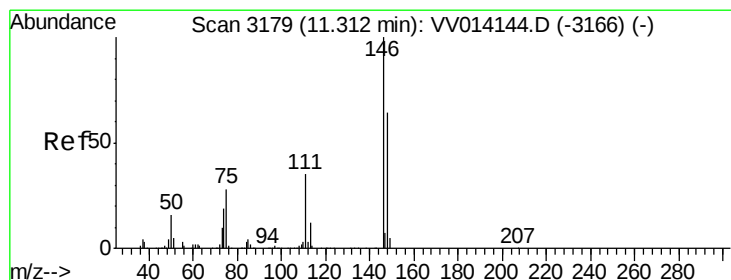
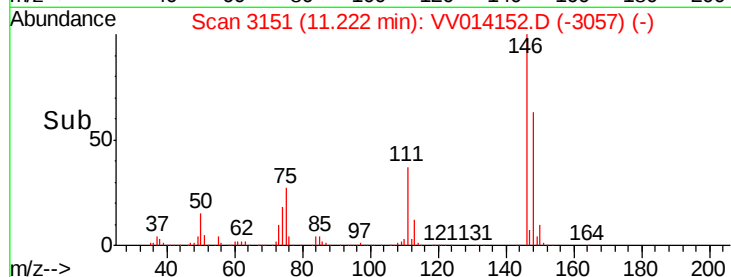
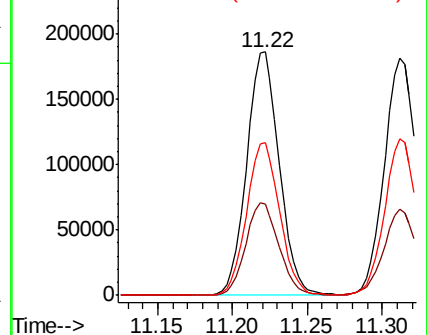
148 62.6 44.7 82.9



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: 4.654 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

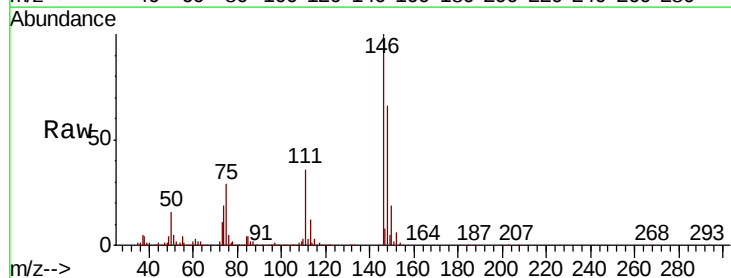
Tgt Ion:146 Resp: 278587

Ion Ratio Lower Upper

146 100

111 36.2 25.0 46.4

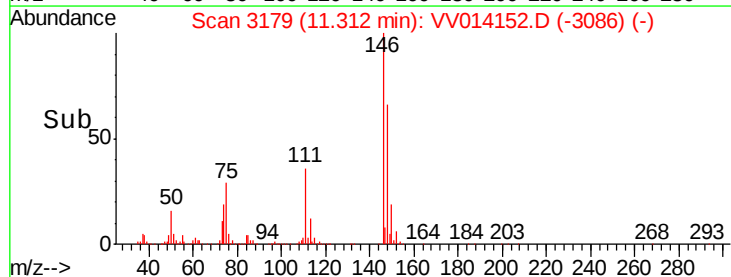
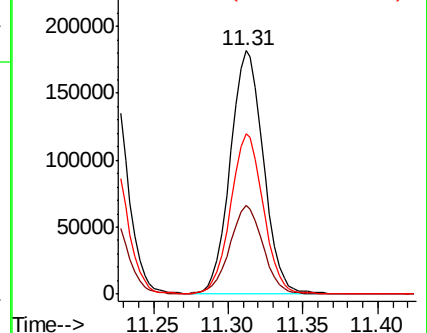
148 66.0 45.4 84.2

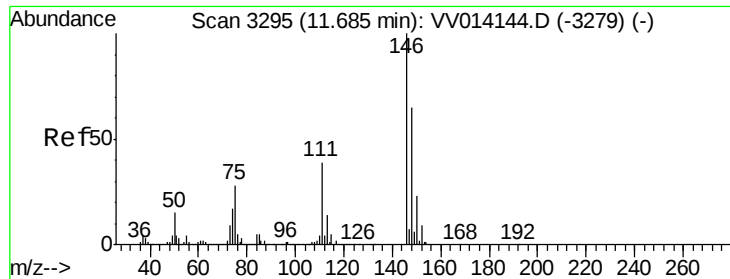


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

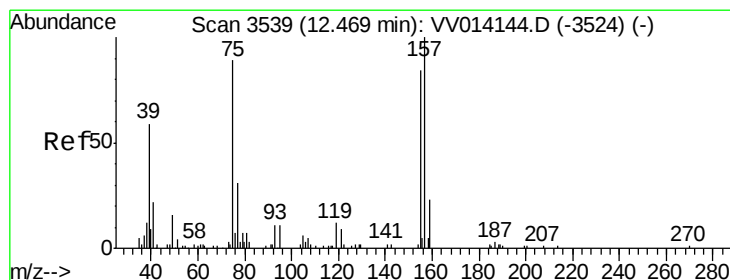
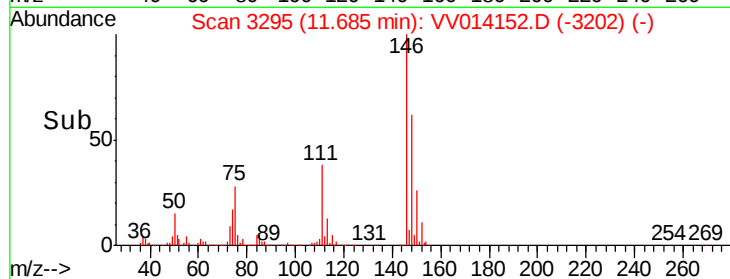
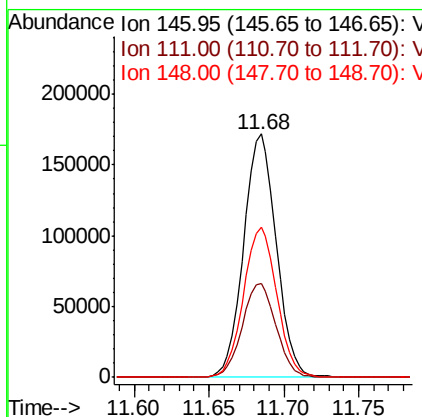
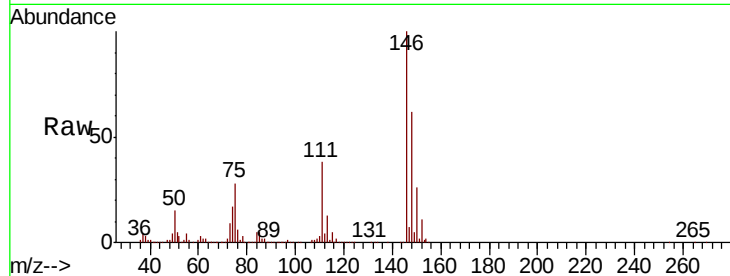




#65
 1,2-Dichlorobenzene
 Concen: 4.793 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

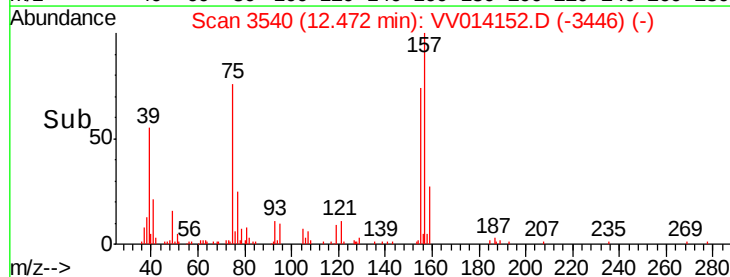
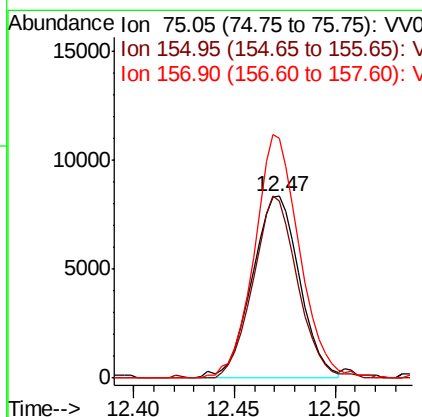
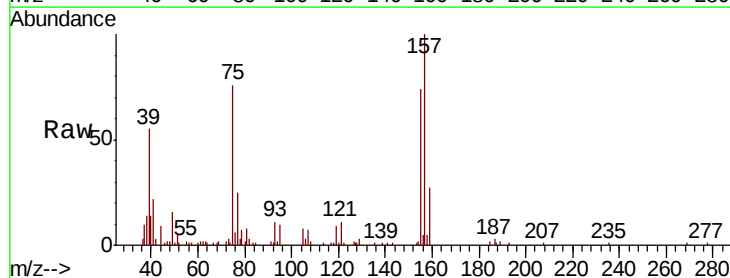
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

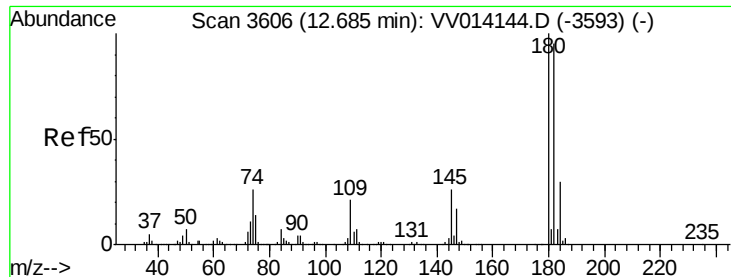
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	31.3	46.9
148	61.6	52.2	78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.310 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.2	73.4	110.0
157	131.9	98.7	148.1

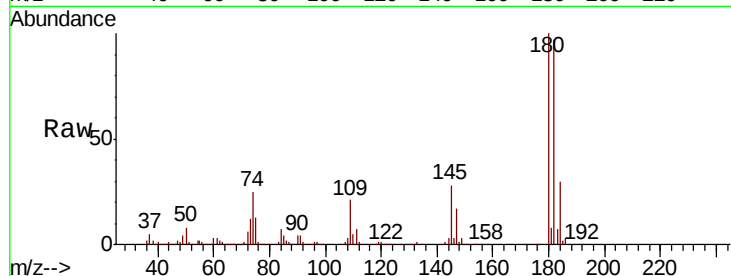




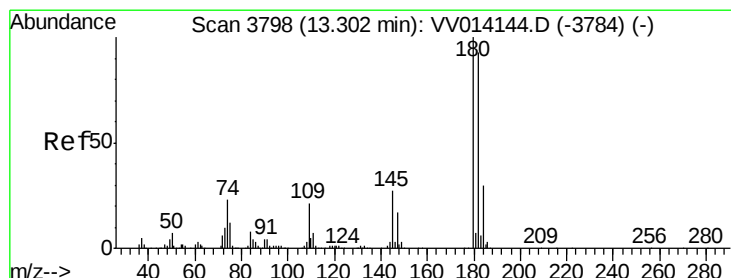
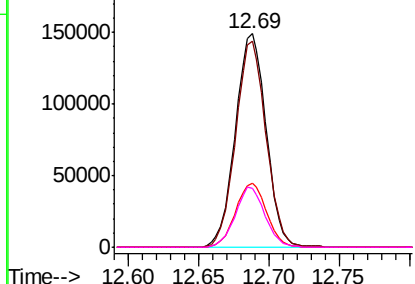
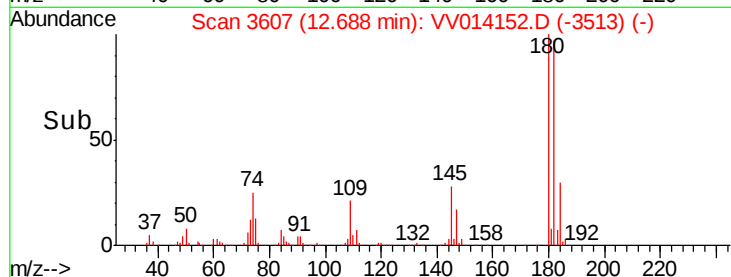
#67
 1,3,5-Trichlorobenzene
 Concen: 4.611 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tot Ion:180	Resp:	229091
Ion Ratio	Lower	Upper
180 100		
182 95.0	74.8	112.2
184 30.2	23.2	34.8
145 27.1	21.3	31.9

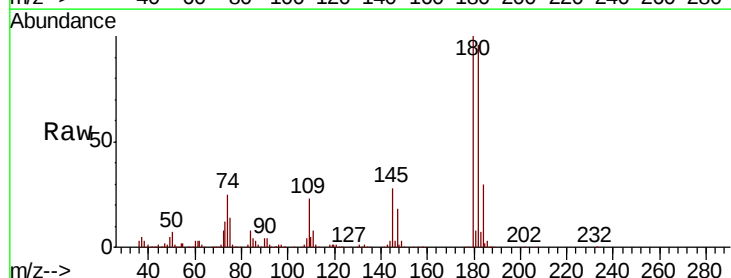


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

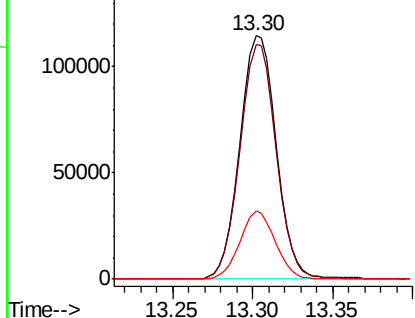
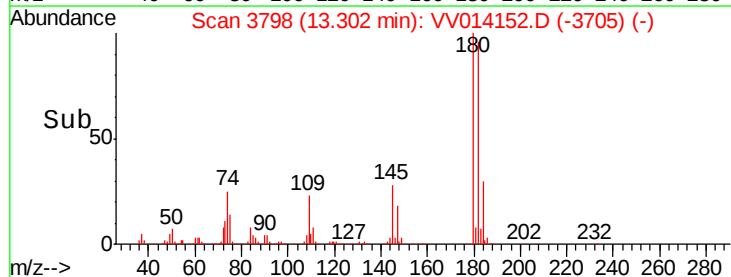


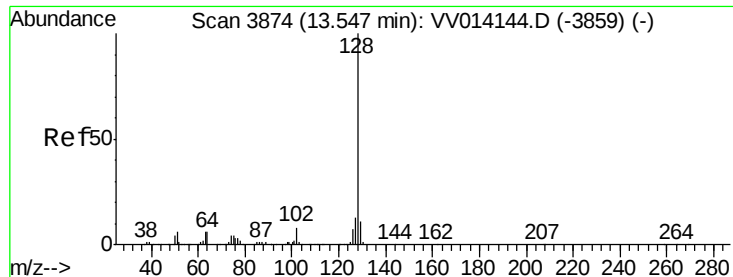
#68
 1,2,4-trichlorobenzene
 Concen: 4.352 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. -0.00 min
 Lab File: VV014152.D
 Acq: 20 Dec 2019 15:30

Tgt Ion:180	Resp:	177327
Ion Ratio	Lower	Upper
180 100		
182 96.2	76.2	114.4
145 27.1	21.0	31.6



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: 3.829 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

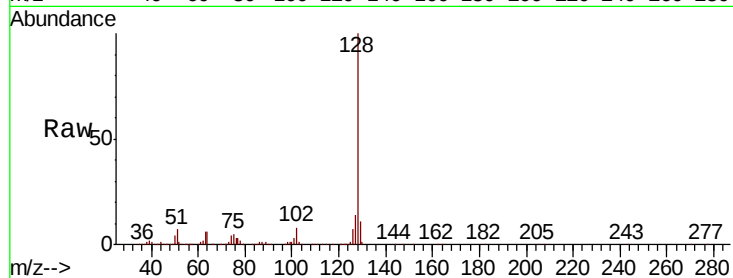
Tot Ion:128 Resp: 212408

Ion Ratio Lower Upper

128 100

129 10.5 8.6 12.8

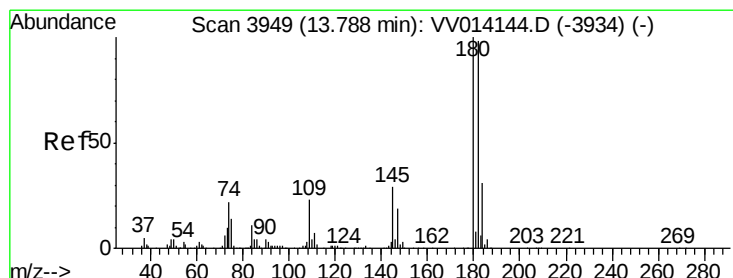
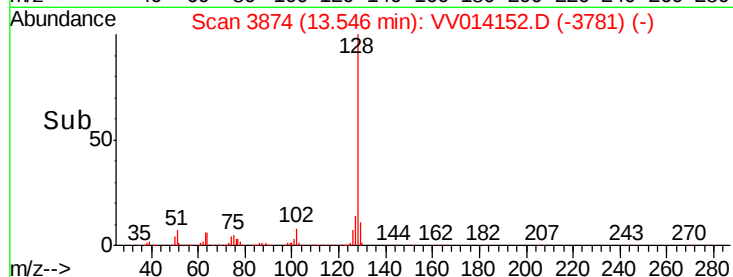
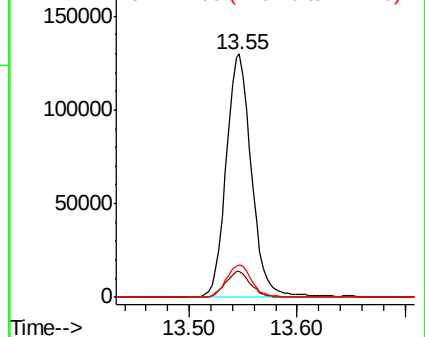
127 13.7 10.6 16.0



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: 4.558 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV014152.D

Acq: 20 Dec 2019 15:30

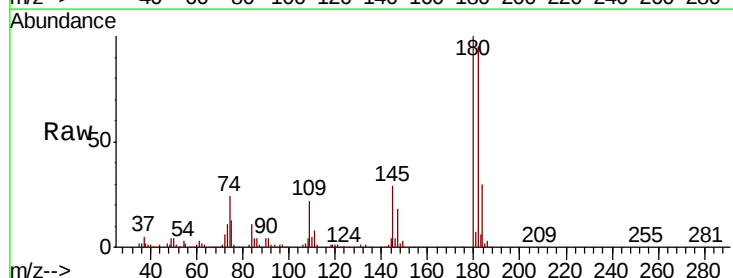
Tgt Ion:180 Resp: 169160

Ion Ratio Lower Upper

180 100

182 94.9 78.5 117.7

145 29.3 23.8 35.8



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

