

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
 Data File : VV014144.D
 Acq On : 20 Dec 2019 09:31
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00559

Quant Time: Dec 21 01:12:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 20 10:50:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	380660	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	356234	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	205818	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	122574	5.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.00%
7) Chloroethane-d5	1.58	69	107255	5.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.20%
11) 1,1-Dichloroethene-d2	2.13	63	206267	5.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.00%
20) 2-Butanone-d5	3.94	46	238633	48.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.44%
24) Chloroform-d	4.39	84	240952	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.07	65	115326	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.00%
32) Benzene-d6	5.09	84	463847	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.00%
36) 1,2-Dichloropropane-d6	6.11	67	137716	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.35	98	422337	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.66	79	49062	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.13	63	175885	44.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.46%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	101287	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	160845	4.43	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	123550	4.873	ug/L	98
3) Chloromethane	1.25	50	116548	5.235	ug/L	97
5) Vinyl chloride	1.32	62	117177	5.153	ug/L	100
6) Bromomethane	1.53	94	63486	5.302	ug/L	95
8) Chloroethane	1.60	64	72912	5.321	ug/L	99
9) Trichlorofluoromethane	1.77	101	188934	5.350	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	112417	5.357	ug/L	97
12) 1,1-Dichloroethene	2.14	96	93262	5.096	ug/L	95
13) Acetone	2.21	43	182206	53.198	ug/L #	58
14) Carbon disulfide	2.31	76	209824	4.966	ug/L	100
15) Methyl Acetate	2.47	43	43696	5.699	ug/L	96
16) Methylene chloride	2.53	84	127827	5.099	ug/L	93
17) Methyl tert-butyl Ether	2.80	73	248249	4.956	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	105435	5.102	ug/L	96
19) 1,1-Dichloroethane	3.22	63	229623	5.565	ug/L	98
21) 2-Butanone	4.03	43	261506	50.512	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	121868	5.029	ug/L	95

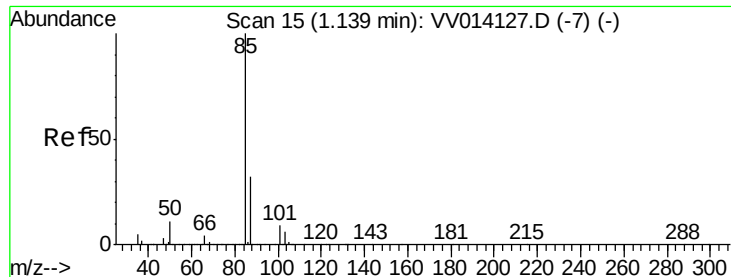
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122019\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	54176	5.087	ug/L	92
25) Chloroform	4.42	83	239036	5.465	ug/L	100
27) 1,2-Dichloroethane	5.17	62	130766	5.224	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	199170	5.466	ug/L	99
30) Cyclohexane	4.72	56	152003	4.993	ug/L	98
31) Carbon tetrachloride	4.87	117	179378	5.595	ug/L	99
33) Benzene	5.14	78	468331	5.360	ug/L	100
34) Trichloroethene	5.95	95	120699	5.007	ug/L	98
35) Methylcyclohexane	6.17	83	157950	4.911	ug/L	94
37) 1,2-Dichloropropane	6.21	63	123347	5.492	ug/L	98
38) Bromodichloromethane	6.55	83	162003	5.467	ug/L	97
39) cis-1,3-Dichloropropene	7.06	75	163649	5.135	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	673698	51.411	ug/L	96
42) Toluene	7.42	91	489171	5.219	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	130255	5.222	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	79754	4.983	ug/L	98
47) Tetrachloroethene	8.01	164	104145	4.976	ug/L	97
48) 2-Hexanone	8.18	43	489778	52.363	ug/L	99
49) Dibromochloromethane	8.28	129	107284	5.226	ug/L	99
50) 1,2-Dibromoethane	8.39	107	70563	4.868	ug/L	98
51) Chlorobenzene	8.92	112	315983	4.845	ug/L	97
52) Ethylbenzene	9.05	91	507888	4.988	ug/L	99
53) m,p-xylene	9.18	106	194144	5.002	ug/L	100
54) o-xylene	9.58	106	188273	4.968	ug/L	93
55) Styrene	9.60	104	337123	5.152	ug/L	98
56) Isopropylbenzene	9.97	105	551830	5.343	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	100724	5.727	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	72659	5.270	ug/L	98
61) Bromoform	9.77	173	62417	4.819	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	295046	4.934	ug/L	97
63) 1,4-Dichlorobenzene	11.31	146	291258	4.786	ug/L	100
65) 1,2-Dichlorobenzene	11.68	146	265969	4.793	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	14215	4.408	ug/L	93
67) 1,3,5-Trichlorobenzene	12.68	180	241204	4.776	ug/L	97
68) 1,2,4-trichlorobenzene	13.30	180	188488	4.551	ug/L	99
69) Naphthalene	13.55	128	206463	3.661	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	171385	4.542	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.873 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

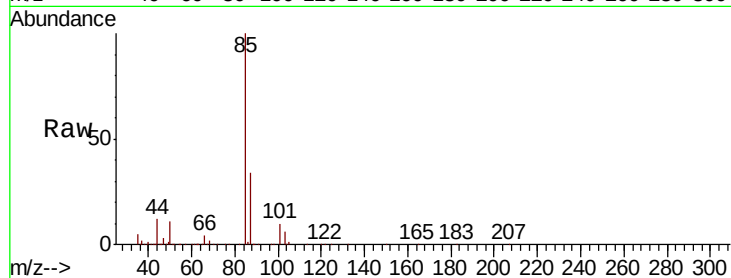
VSTD00559

Tot Ion: 85 Resp: 123550

Ion Ratio Lower Upper

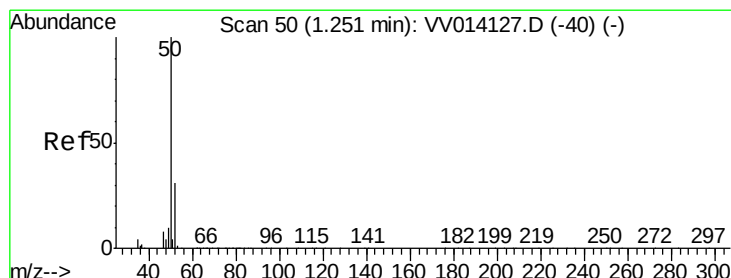
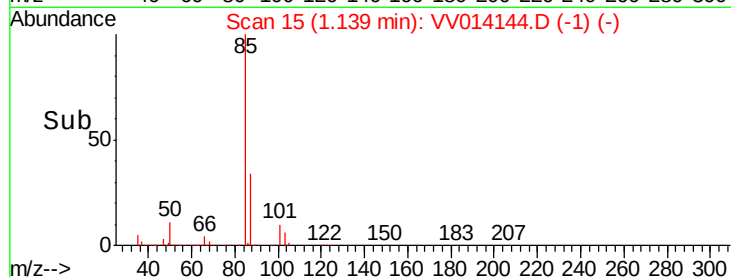
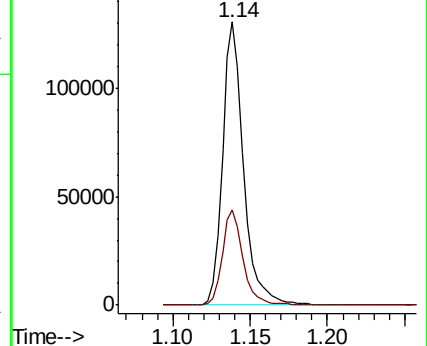
85 100

87 33.4 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV014127.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV014127.D (-7) (-)



#3

Chloromethane

Concen: 5.235 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014144.D

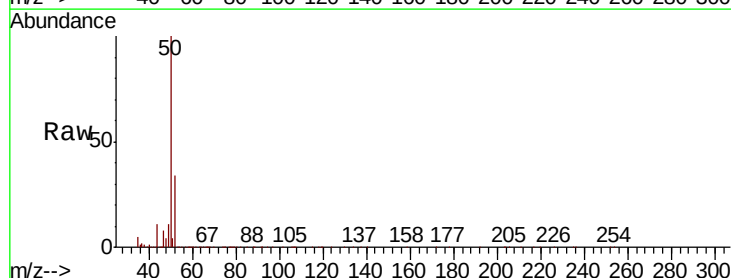
Acq: 20 Dec 2019 09:31

Tgt Ion: 50 Resp: 116548

Ion Ratio Lower Upper

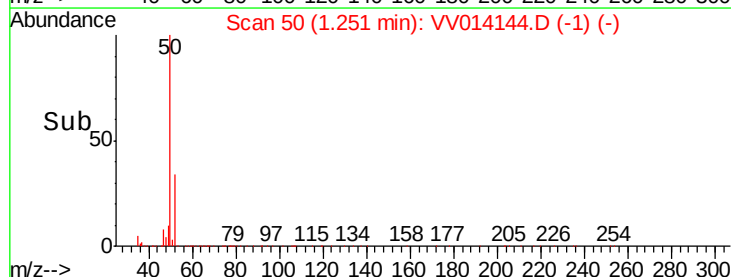
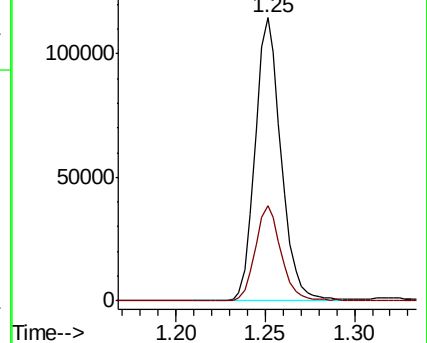
50 100

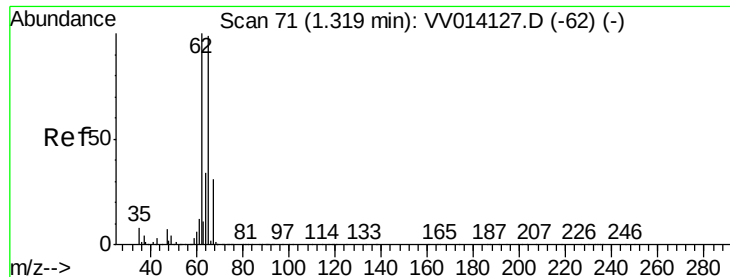
52 33.6 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV014127.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VV014127.D (-40) (-)





#5

Vinyl chloride

Concen: 5.153 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

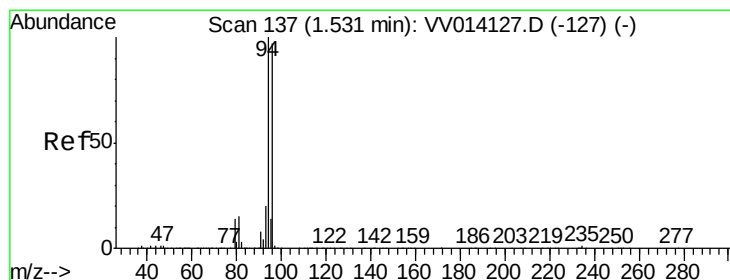
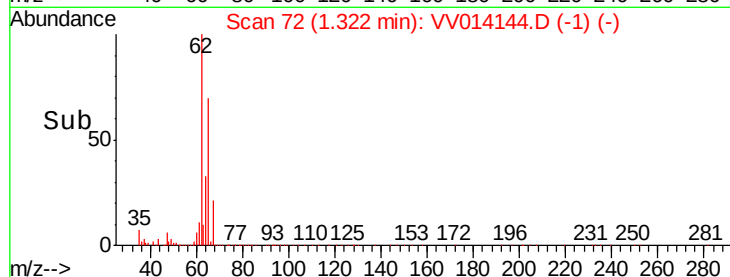
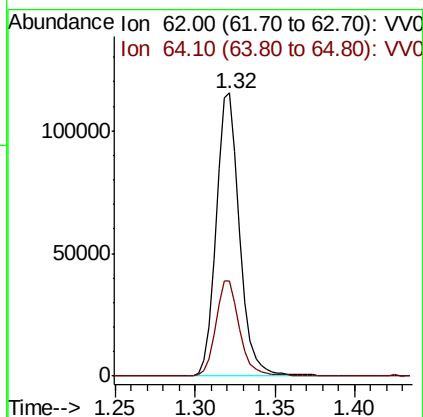
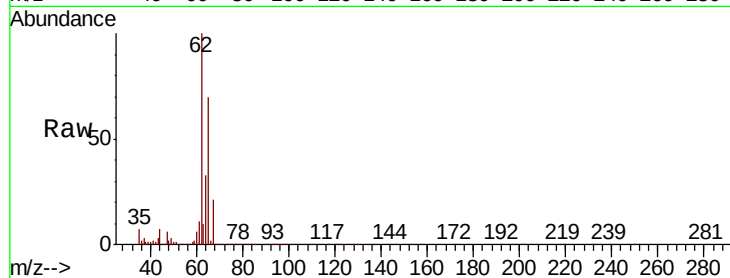
VSTD00559

Tot Ion: 62 Resp: 117177

Ion Ratio Lower Upper

62 100

64 33.4 23.3 43.3



#6

Bromomethane

Concen: 5.302 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV014144.D

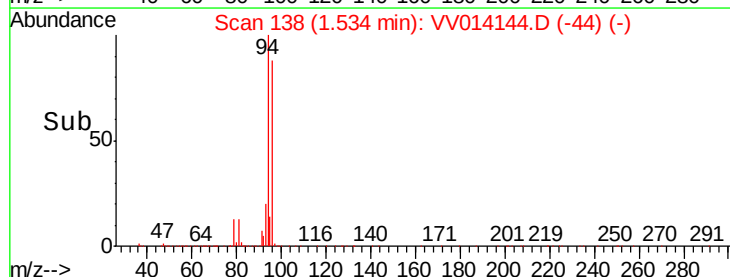
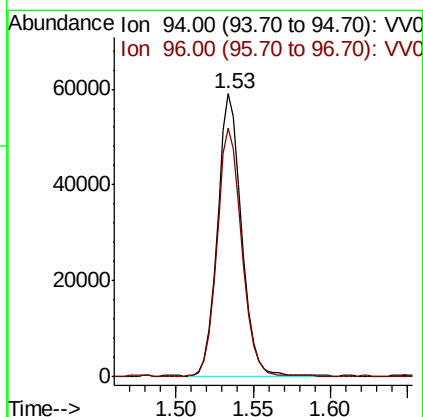
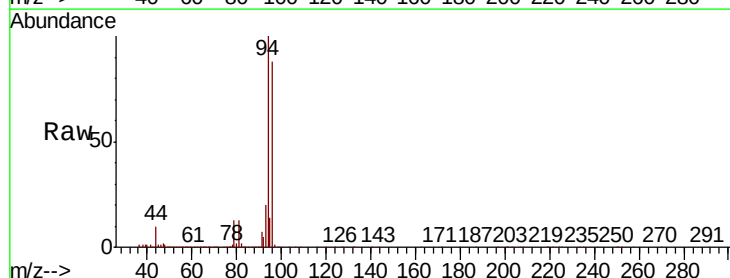
Acq: 20 Dec 2019 09:31

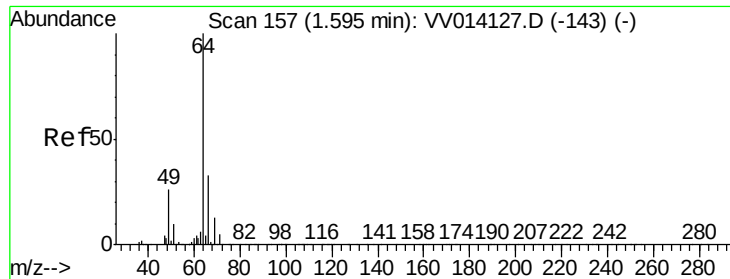
Tgt Ion: 94 Resp: 63486

Ion Ratio Lower Upper

94 100

96 88.1 65.2 121.0

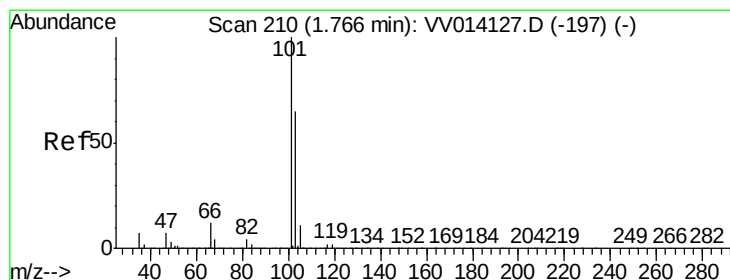
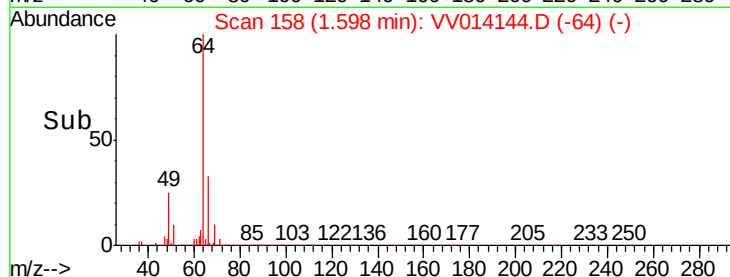
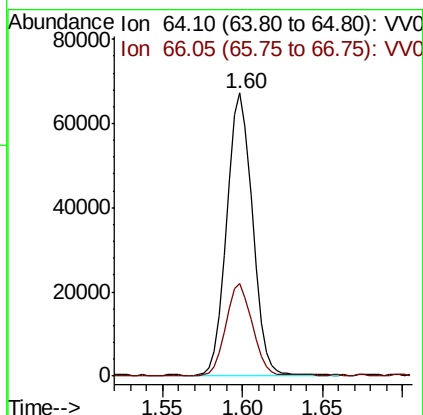
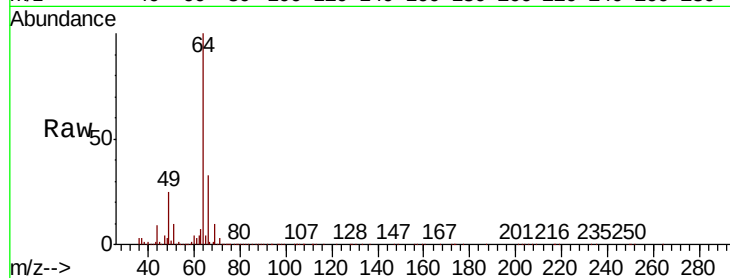




#8
Chloroethane
Concen: 5.321 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

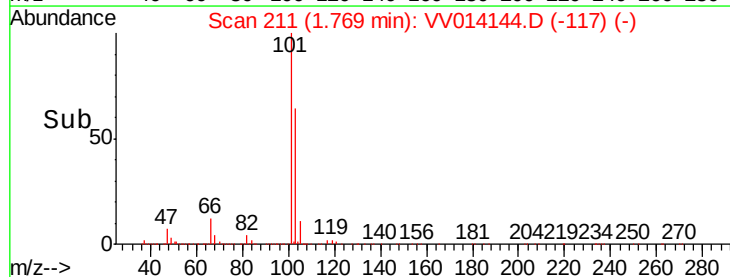
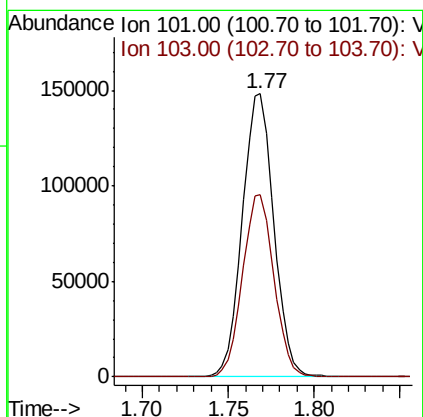
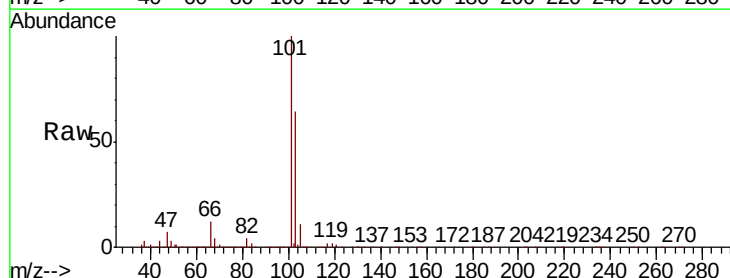
Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

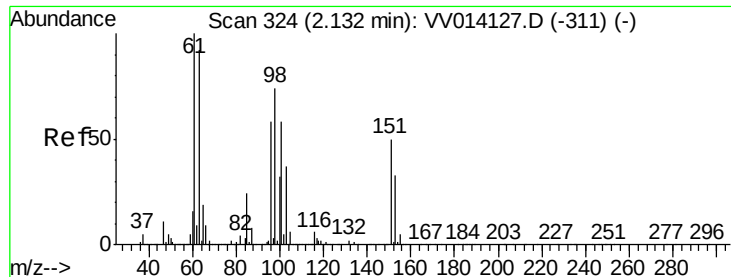
Tot Ion: 64 Resp: 72912
Ion Ratio Lower Upper
64 100
66 32.6 22.6 42.0



#9
Trichlorofluoromethane
Concen: 5.350 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion: 101 Resp: 188934
Ion Ratio Lower Upper
101 100
103 64.3 52.9 79.3





#10

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

Concen: 5.357 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

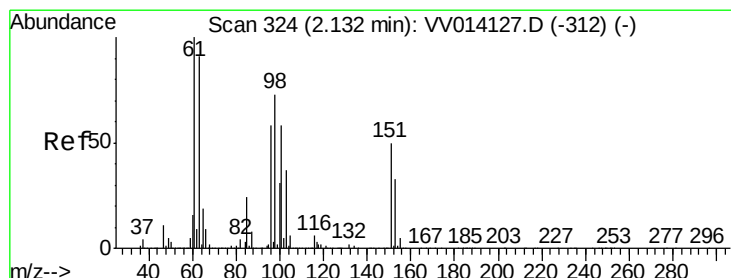
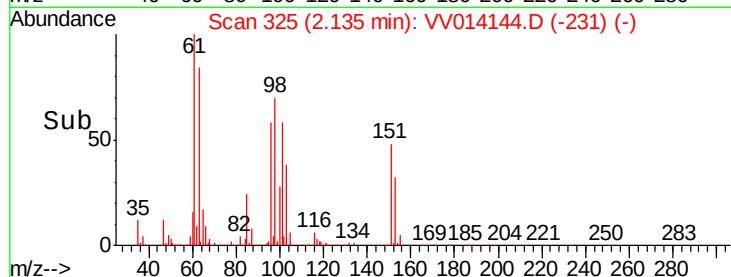
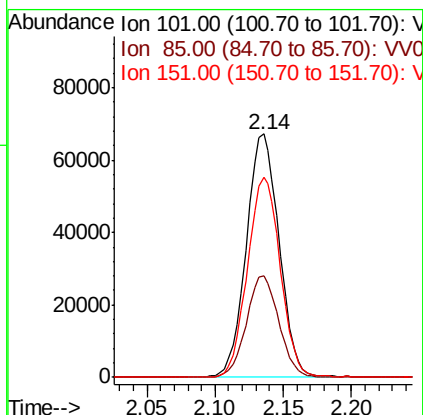
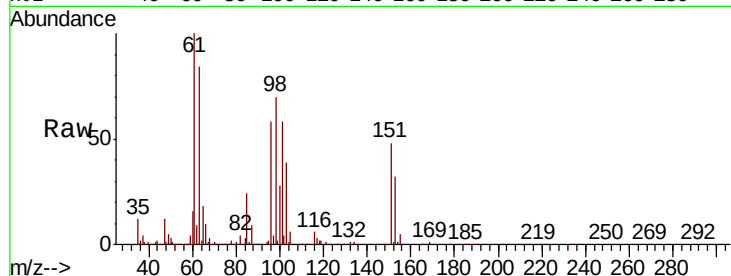
Tot Ion:101 Resp: 112417

Ion Ratio Lower Upper

101 100

85 41.5 33.4 50.0

151 82.2 69.4 104.0



#12

1,1-Dichloroethene

Concen: 5.096 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

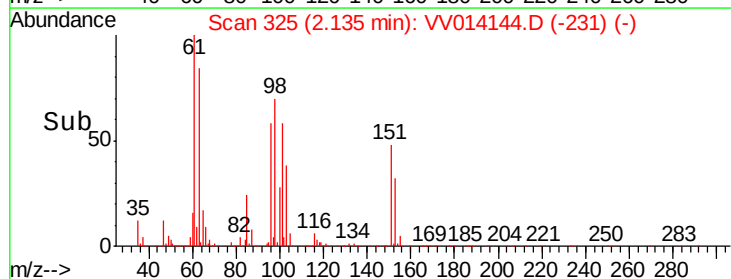
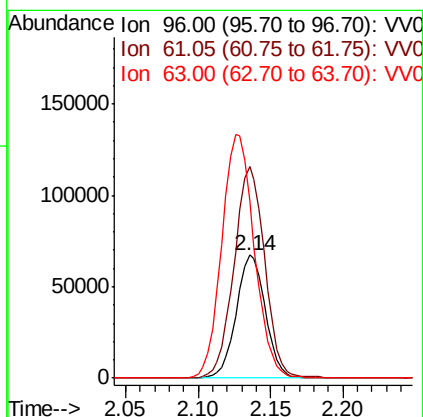
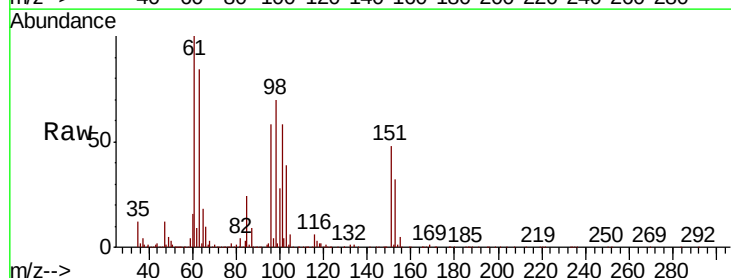
Tgt Ion: 96 Resp: 93262

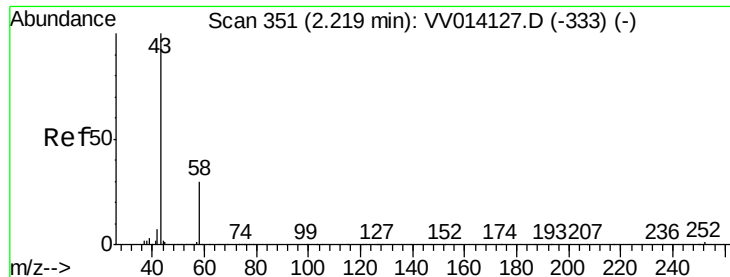
Ion Ratio Lower Upper

96 100

61 171.9 116.3 215.9

63 144.2 96.7 179.7





#13

Acetone

Concen: 53.198 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.01 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

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MSVOA_V

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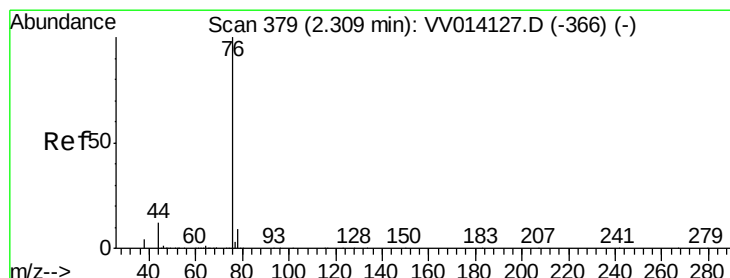
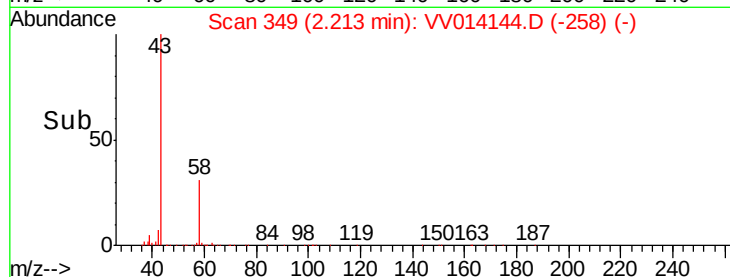
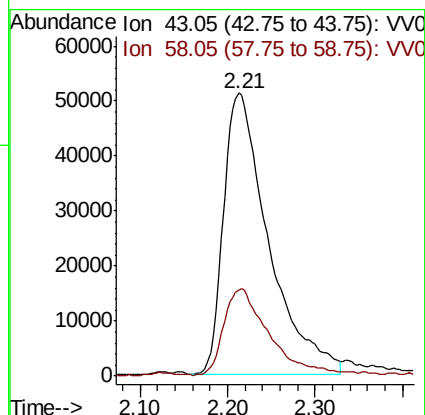
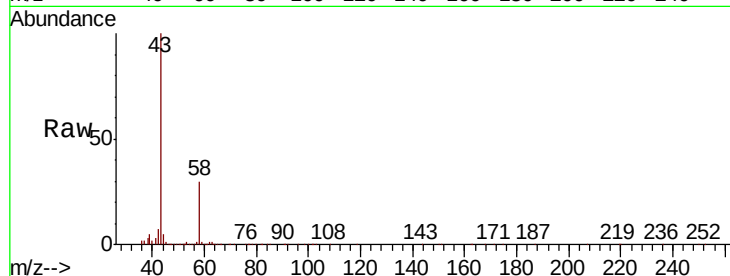
VSTD00559

Tot Ion: 43 Resp: 182206

Ion Ratio Lower Upper

43 100

58 30.5 0.0 27.2#



#14

Carbon disulfide

Concen: 4.966 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV014144.D

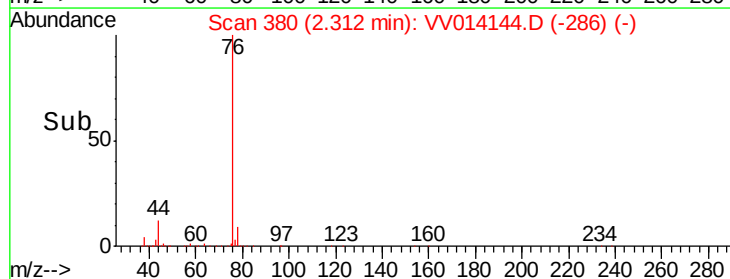
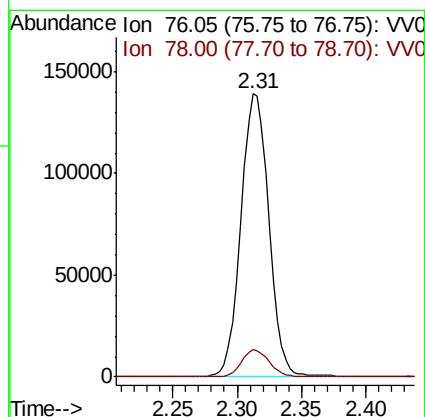
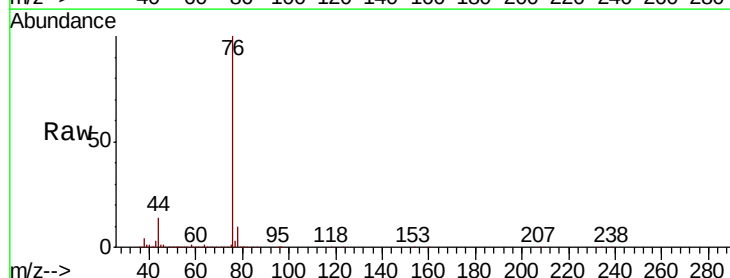
Acq: 20 Dec 2019 09:31

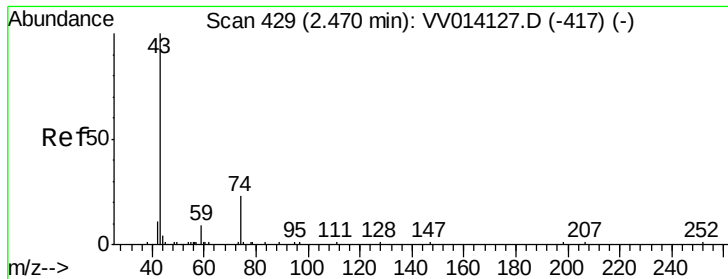
Tgt Ion: 76 Resp: 209824

Ion Ratio Lower Upper

76 100

78 9.6 7.5 11.3

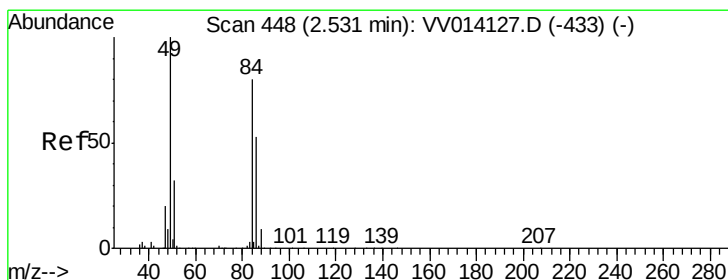
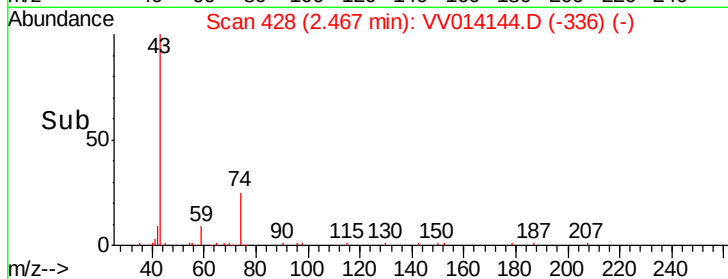
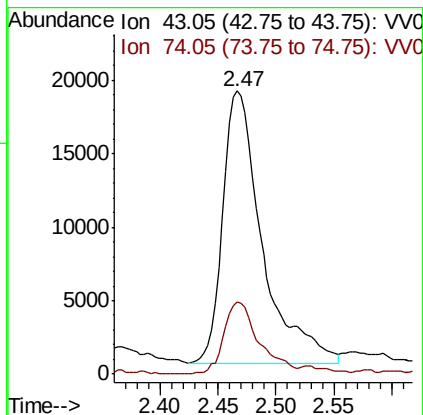
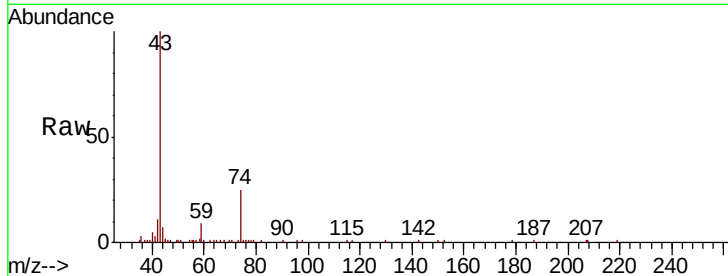




#15
Methvl Acetate
Concen: 5.699 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

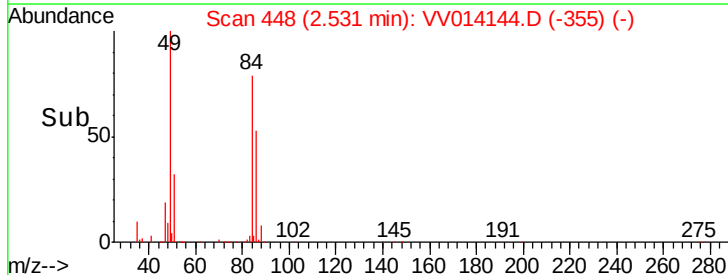
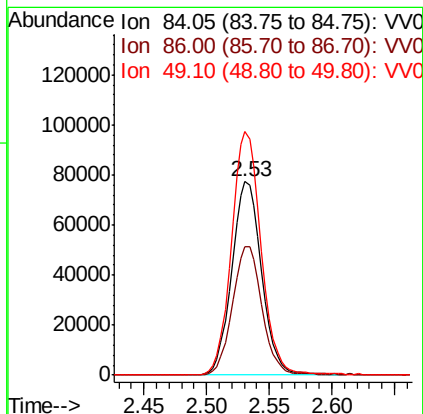
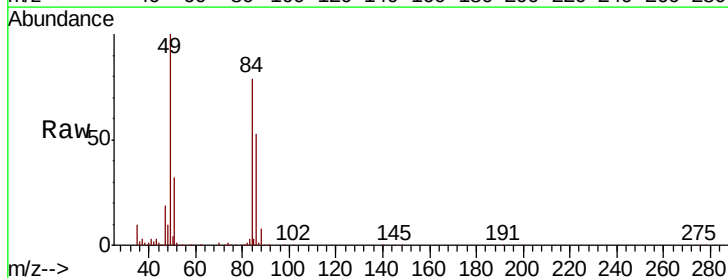
Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

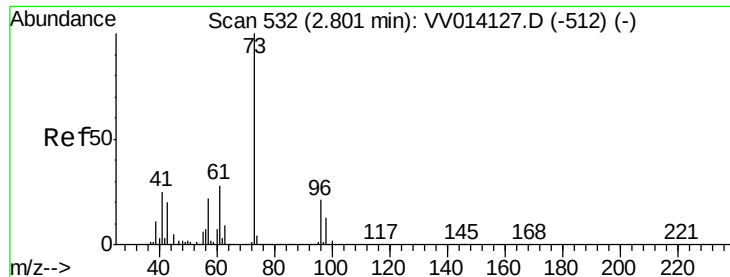
Tot Ion: 43 Resp: 43696
Ion Ratio Lower Upper
43 100
74 23.8 20.5 30.7



#16
Methylene chloride
Concen: 5.099 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion: 84 Resp: 127827
Ion Ratio Lower Upper
84 100
86 66.6 44.0 81.6
49 125.9 81.5 151.5

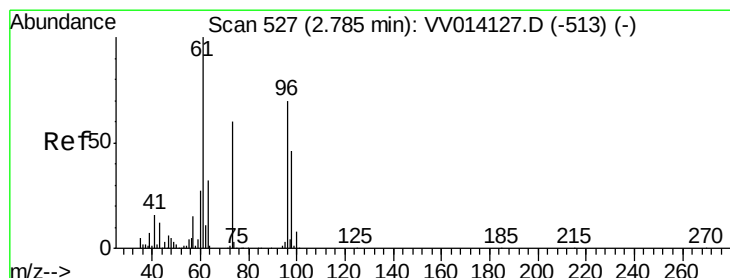
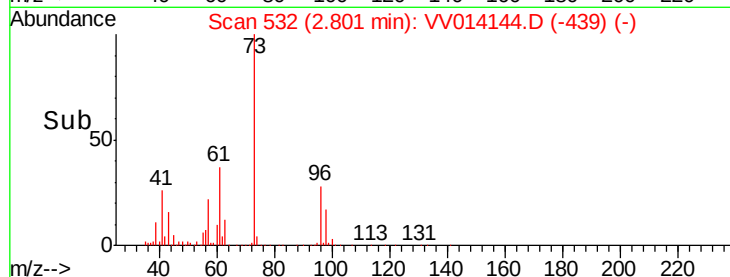
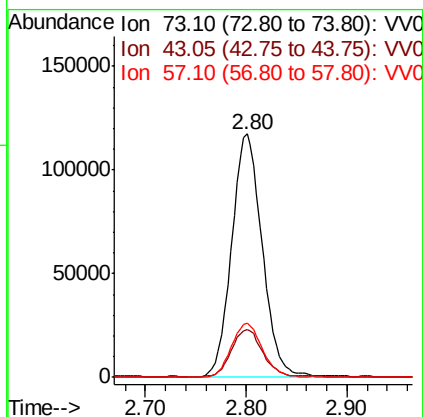
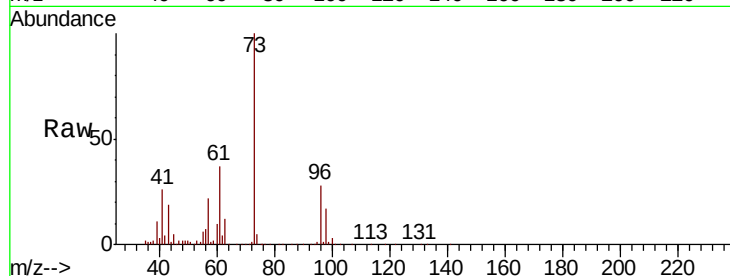




#17
Methyl tert-butyl Ether
Concen: 4.956 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

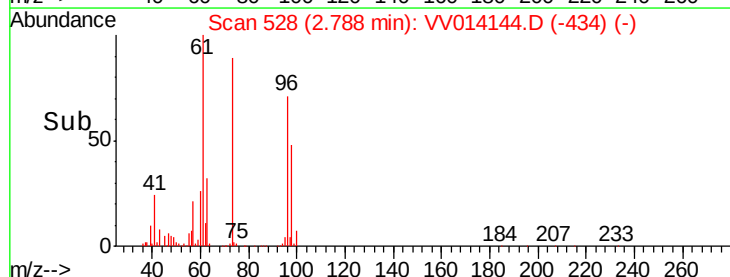
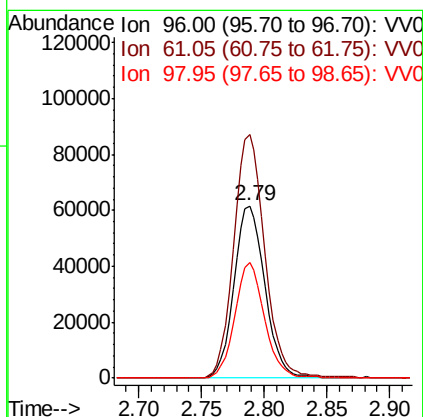
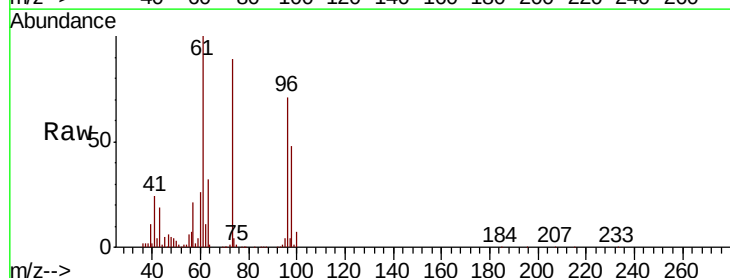
Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

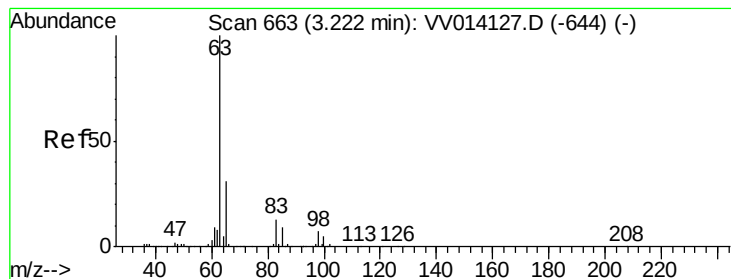
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.6	15.5	23.3
57	22.6	17.5	26.3



#18
trans-1,2-Dichloroethene
Concen: 5.102 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.6	95.1	176.7
98	67.3	46.5	86.3





#19

1,1-Dichloroethane

Concen: 5.565 ug/L

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

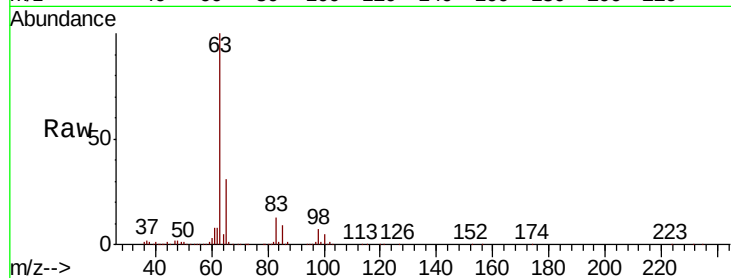
Tot Ion: 63 Resp: 229623

Ion Ratio Lower Upper

63 100

65 30.6 22.7 42.1

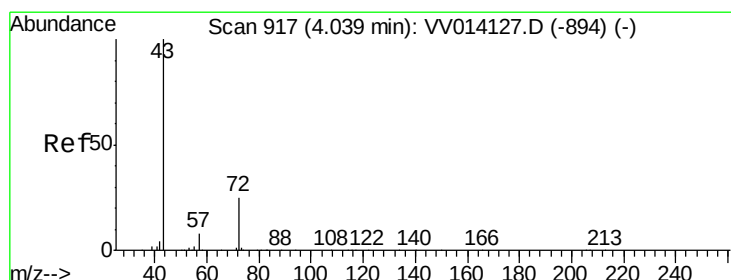
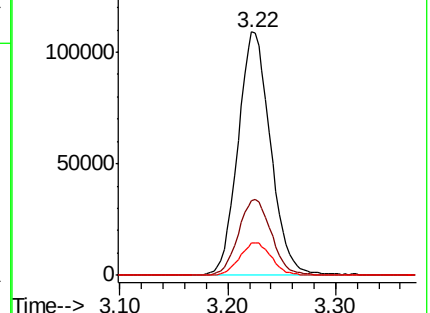
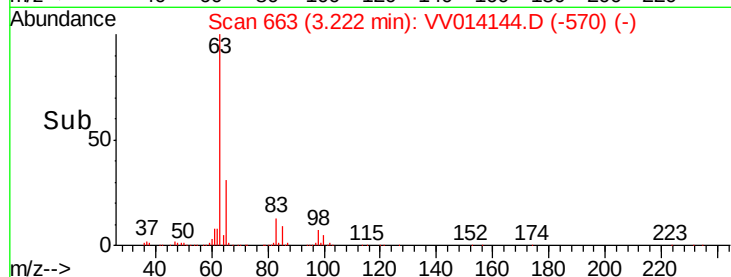
83 13.1 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV014144.D (-570) (-)

Ion 65.10 (64.80 to 65.80): VV014144.D (-570) (-)

Ion 83.05 (82.75 to 83.75): VV014144.D (-570) (-)



#21

2-Butanone

Concen: 50.512 ug/L

RT: 4.03 min Scan# 914

Delta R.T. -0.01 min

Lab File: VV014144.D

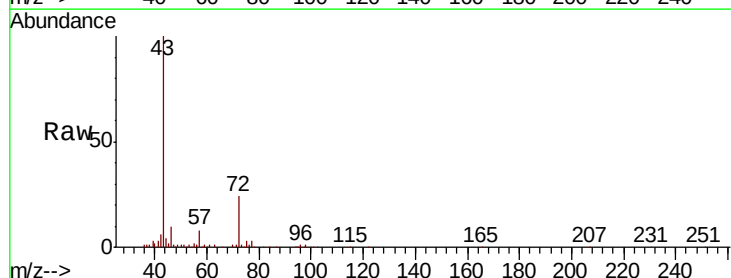
Acq: 20 Dec 2019 09:31

Tgt Ion: 43 Resp: 261506

Ion Ratio Lower Upper

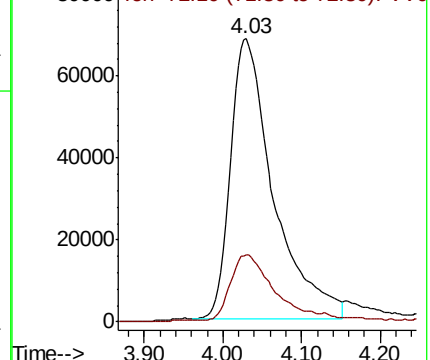
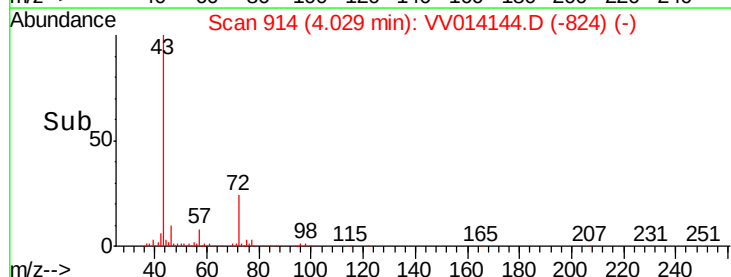
43 100

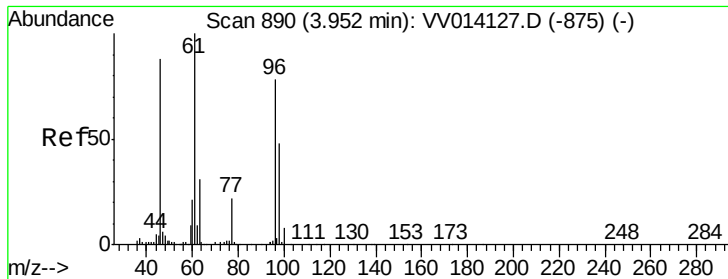
72 23.6 12.3 36.9



Abundance Ion 43.05 (42.75 to 43.75): VV014144.D (-824) (-)

Ion 72.10 (71.80 to 72.80): VV014144.D (-824) (-)



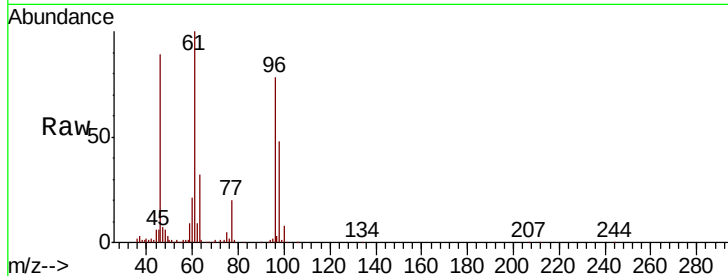


#22

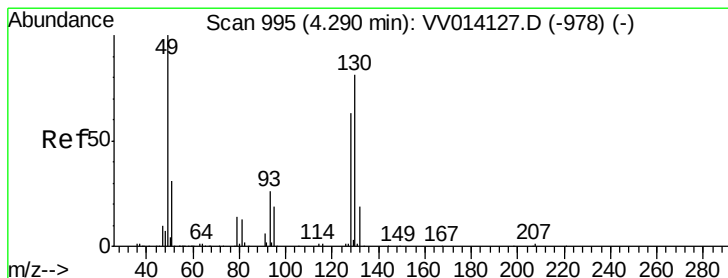
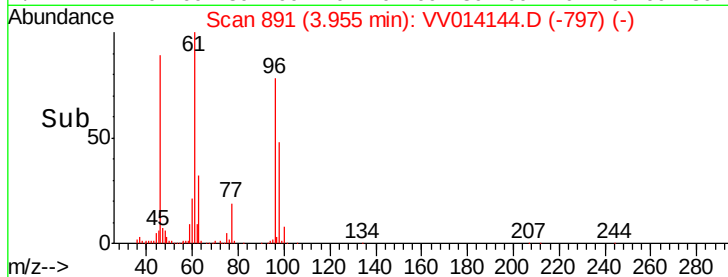
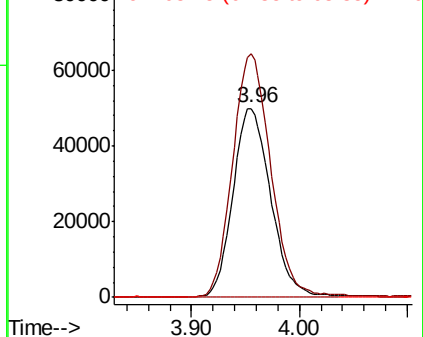
cis-1,2-Dichloroethene
Concen: 5.029 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.7	86.1	159.9
68	0.0	0.0	0.0



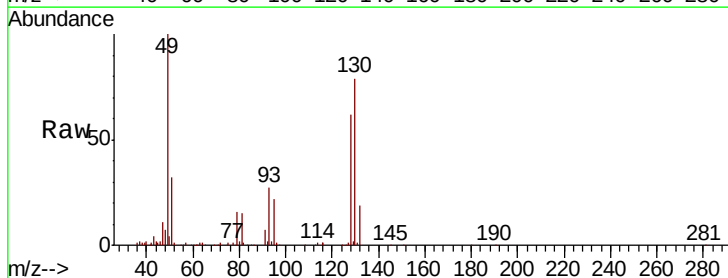
Abundance Ion 96.00 (95.70 to 96.70): VV014127.D (-875) (-)



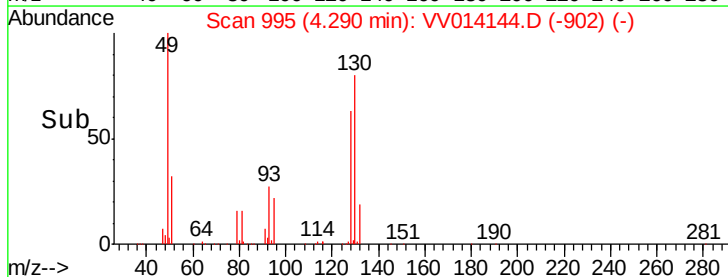
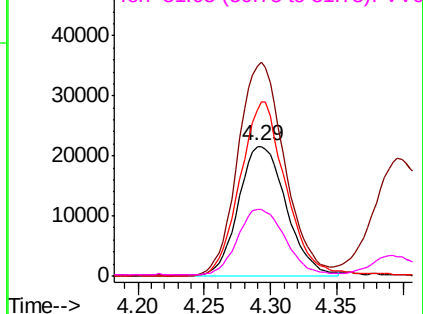
#23

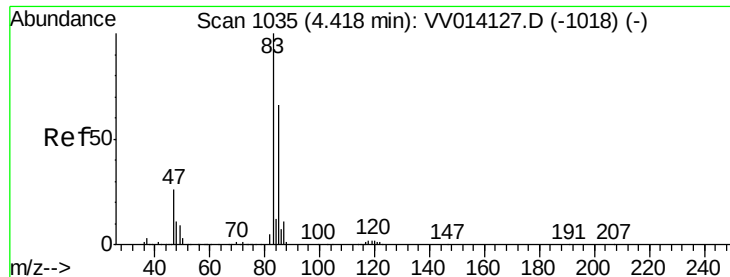
Bromochloromethane
Concen: 5.087 ug/L
RT: 4.29 min Scan# 995
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion	Ratio	Lower	Upper
128	100		
49	161.5	100.1	185.9
130	127.8	89.0	165.4
51	51.5	36.3	54.5



Abundance Ion 127.90 (127.60 to 128.60): VV014127.D (-978) (-)

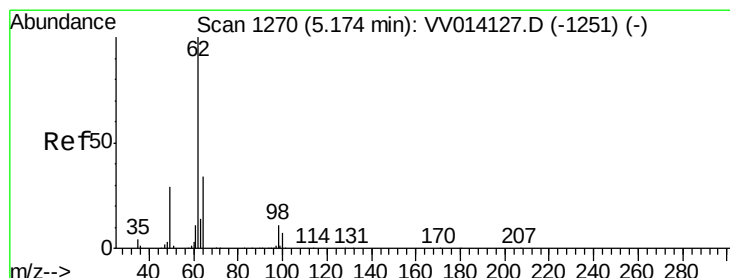
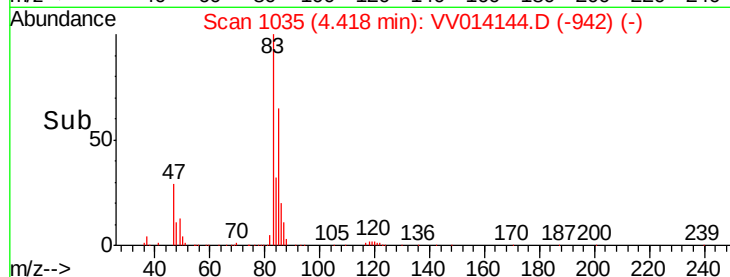
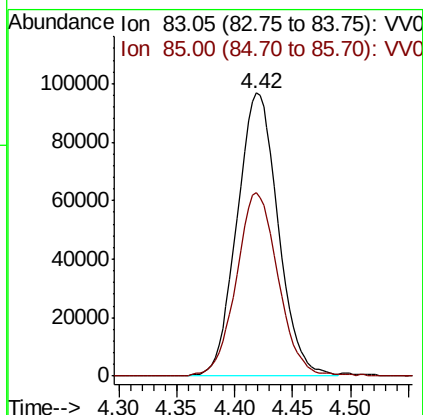
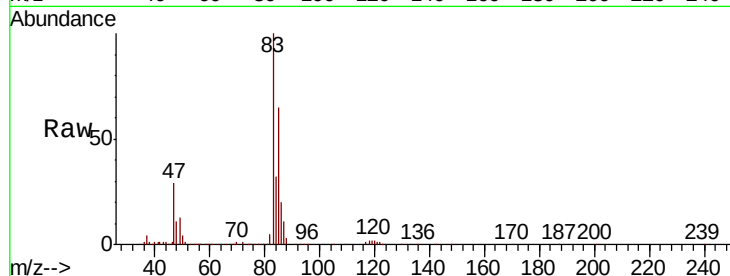




#25
Chloroform
Concen: 5.465 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

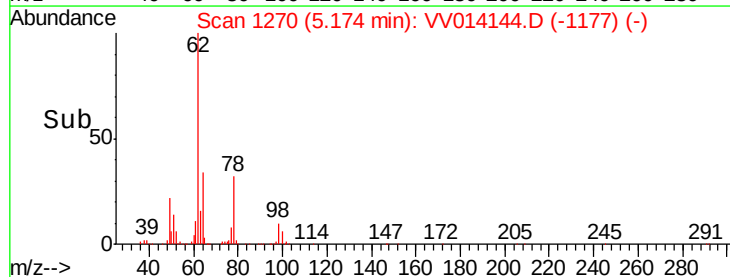
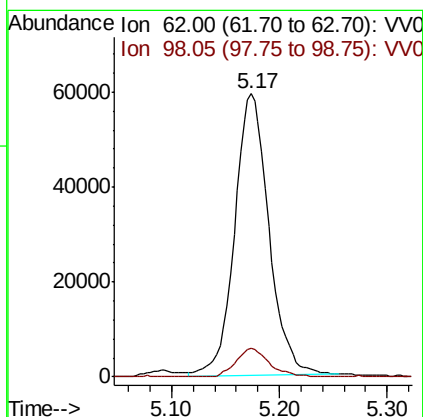
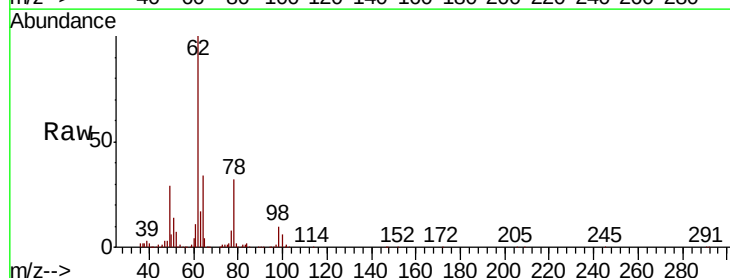
Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

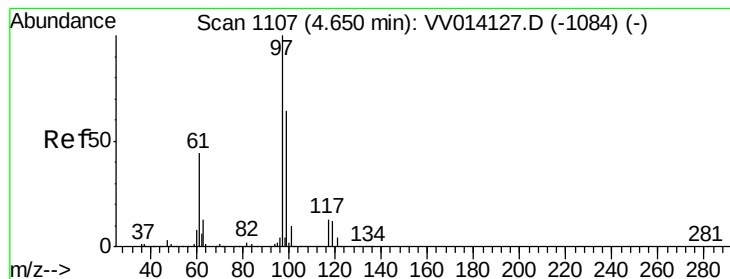
Tot Ion: 83 Resp: 239036
Ion Ratio Lower Upper
83 100
85 64.7 45.1 83.7



#27
1,2-Dichloroethane
Concen: 5.224 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion: 62 Resp: 130766
Ion Ratio Lower Upper
62 100
98 9.9 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 5.466 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

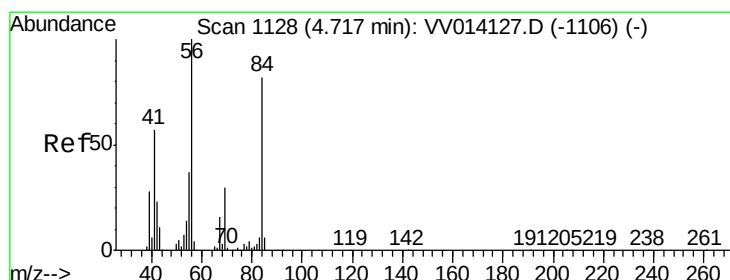
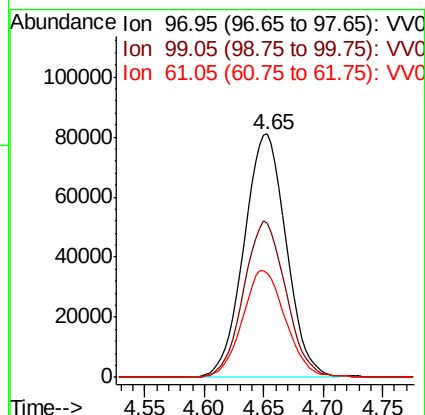
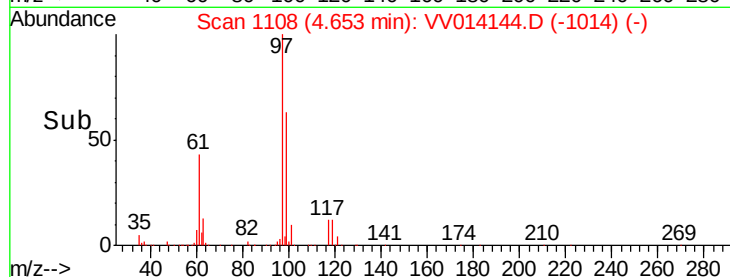
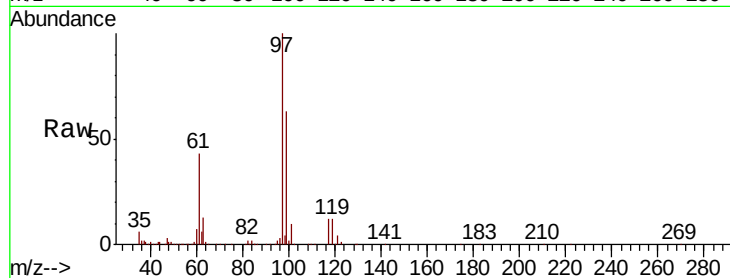
Tot Ion: 97 Resp: 199170

Ion Ratio Lower Upper

97 100

99 64.3 51.7 77.5

61 45.1 35.0 52.6



#30

Cyclohexane

Concen: 4.993 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

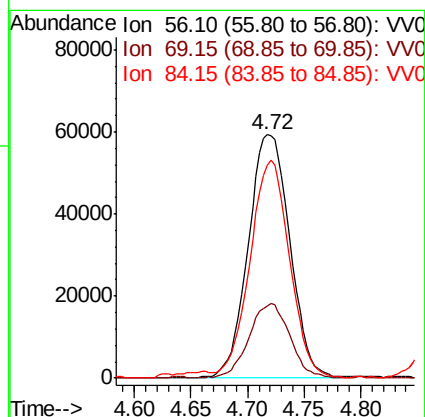
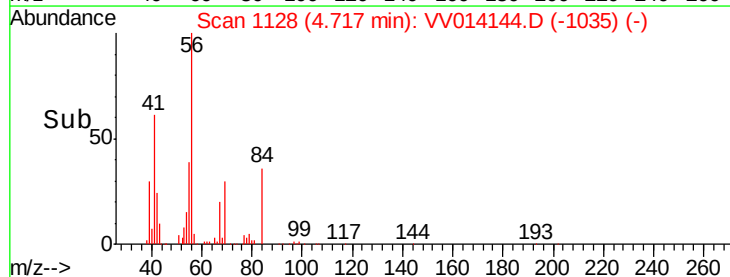
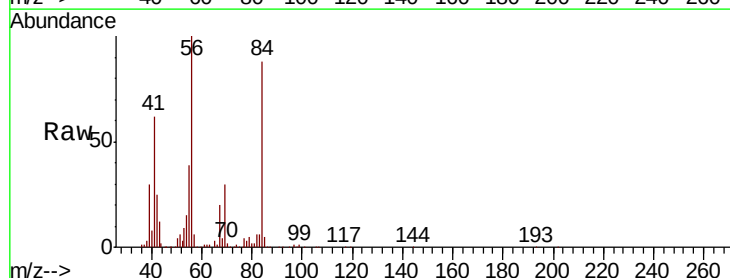
Tgt Ion: 56 Resp: 152003

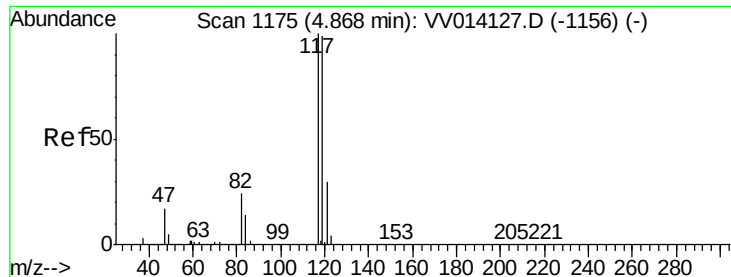
Ion Ratio Lower Upper

56 100

69 30.0 24.1 36.1

84 84.3 69.9 104.9





#31

Carbon tetrachloride

Concen: 5.595 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

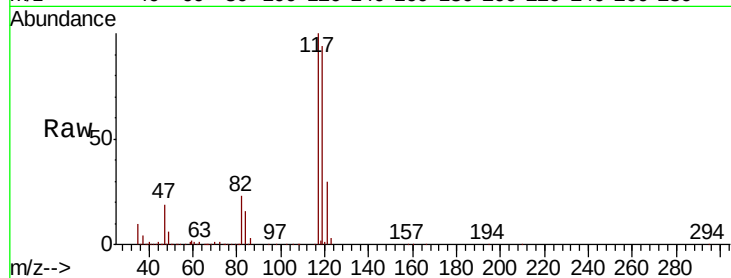
VSTD00559

Tot Ion:117 Resp: 179378

Ion Ratio Lower Upper

117 100

119 94.6 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

80000

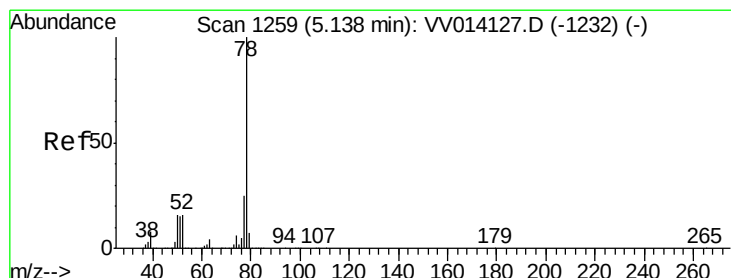
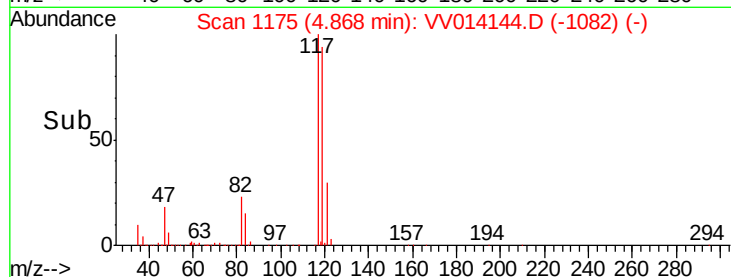
60000

40000

20000

0

Time--> 4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 5.360 ug/L

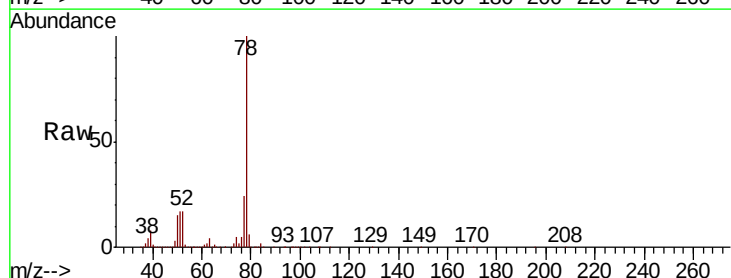
RT: 5.14 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Tgt Ion: 78 Resp: 468331



Abundance Ion 78.10 (77.80 to 78.80): VV0

250000

200000

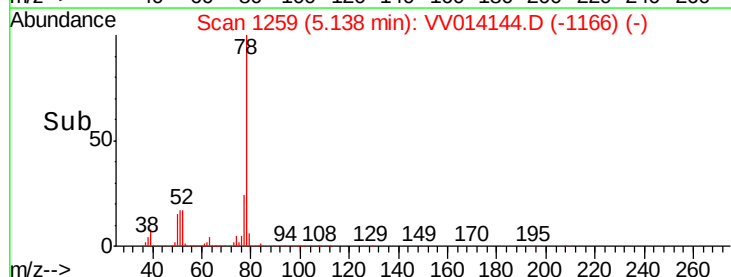
150000

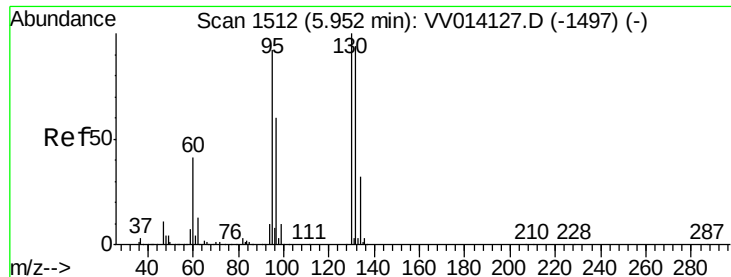
100000

50000

0

Time--> 5.00 5.10 5.20

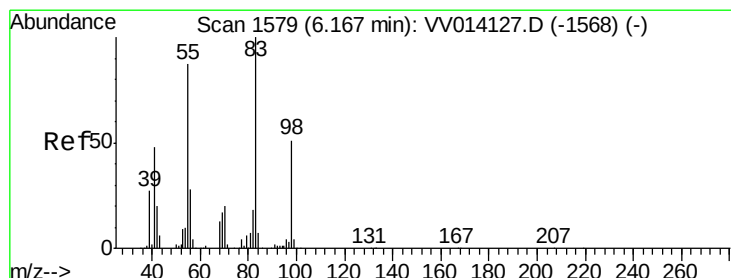
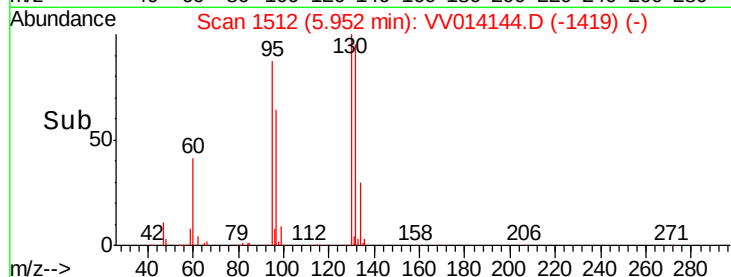
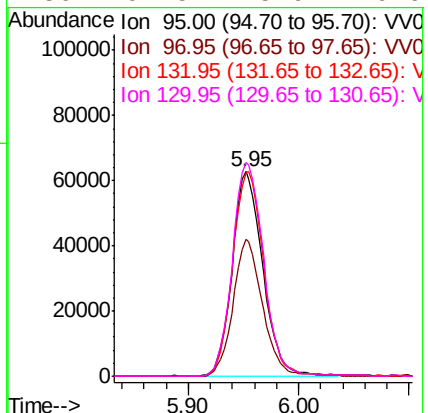
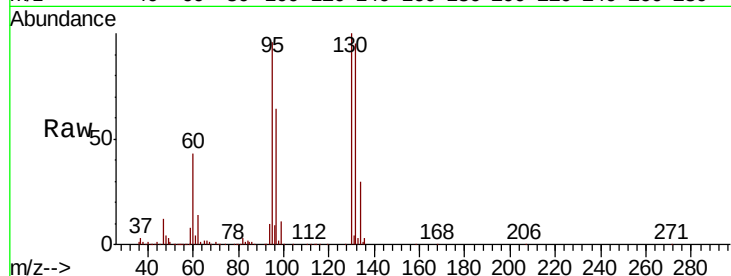




#34
 Trichloroethene
 Concen: 5.007 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

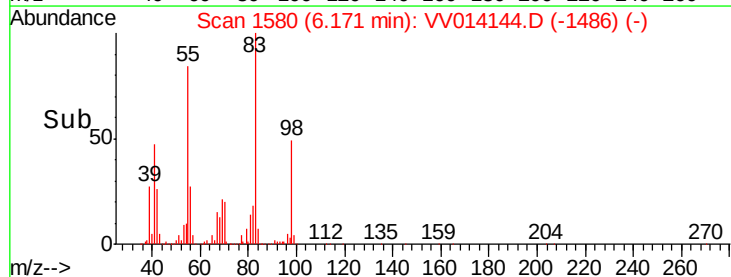
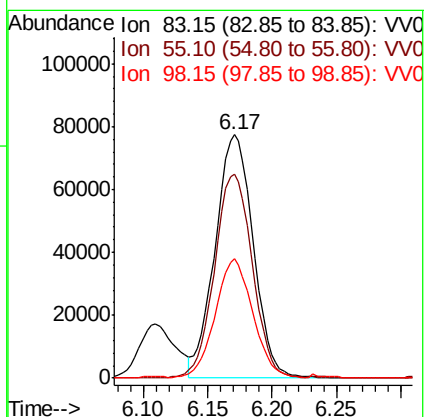
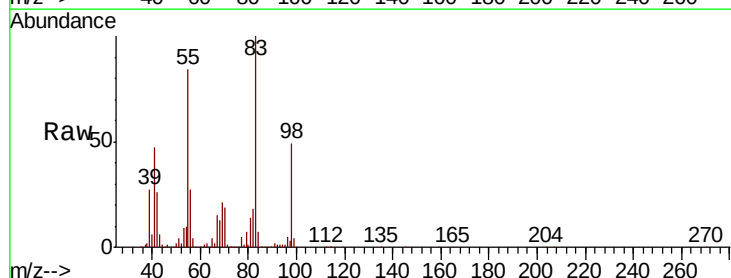
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00559

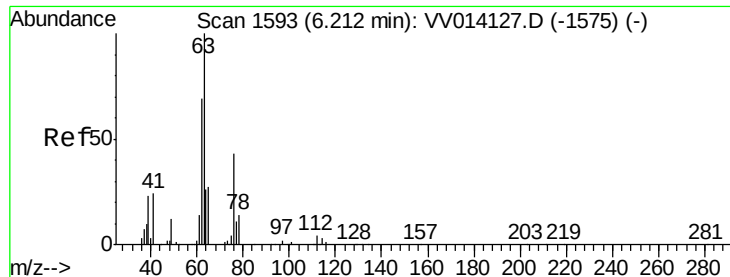
Tot Ion:	95	Resp:	120699
Ion	Ratio	Lower	Upper
95	100		
97	67.1	45.6	84.8
132	99.6	70.5	130.9
130	104.5	75.9	140.9



#35
 Methylcyclohexane
 Concen: 4.911 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Tgt Ion:	83	Resp:	157950
Ion	Ratio	Lower	Upper
83	100		
55	83.4	60.3	90.5
98	47.9	38.1	57.1

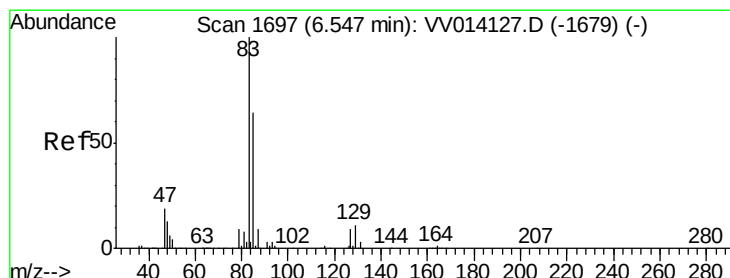
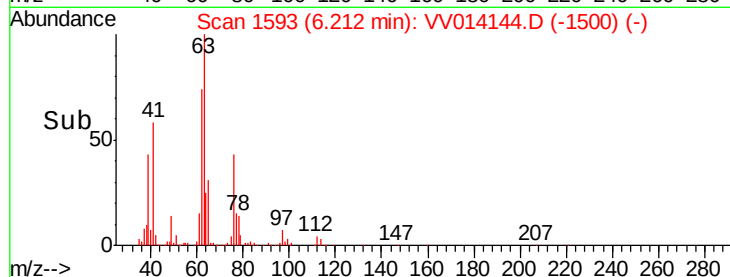
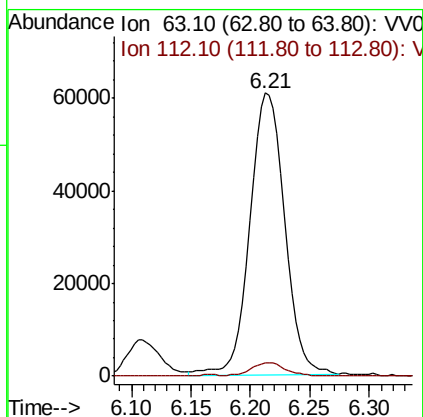
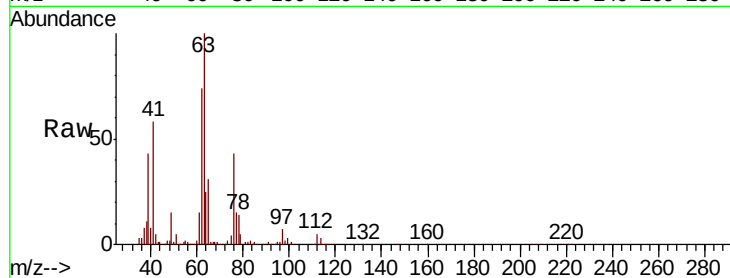




#37
 1,2-Dichloropropane
 Concen: 5.492 ug/L
 RT: 6.21 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

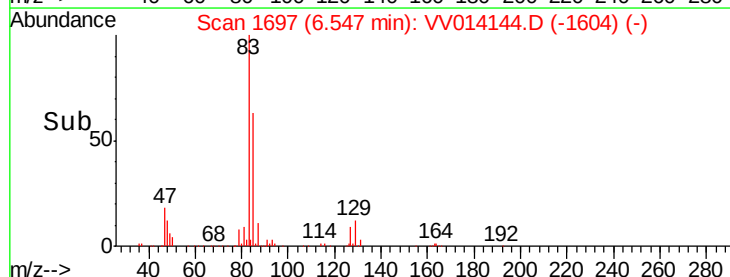
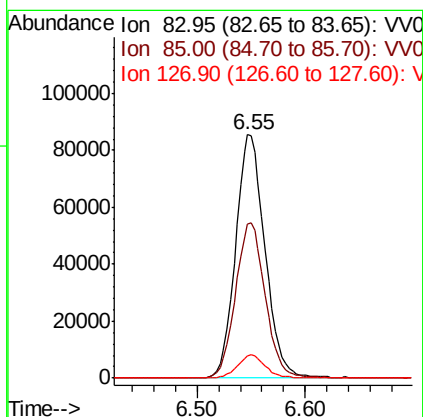
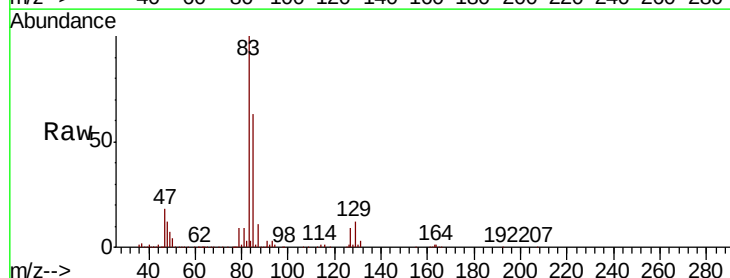
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00559

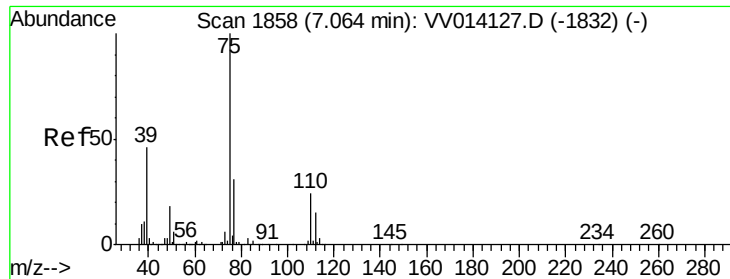
Tot Ion: 63 Resp: 123347
 Ion Ratio Lower Upper
 63 100
 112 4.9 4.4 6.6



#38
 Bromodichloromethane
 Concen: 5.467 ug/L
 RT: 6.55 min Scan# 1697
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Tgt Ion: 83 Resp: 162003
 Ion Ratio Lower Upper
 83 100
 85 63.3 46.1 85.5
 127 9.2 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 5.135 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

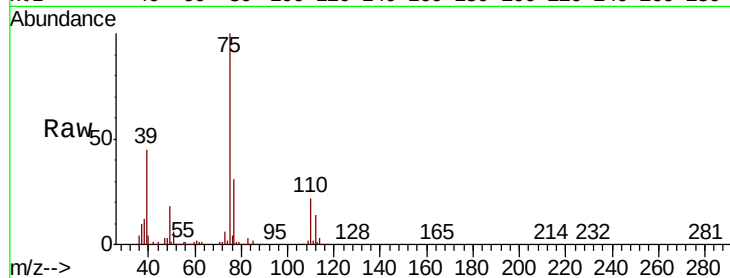
VSTD00559

Tot Ion: 75 Resp: 163649

Ion Ratio Lower Upper

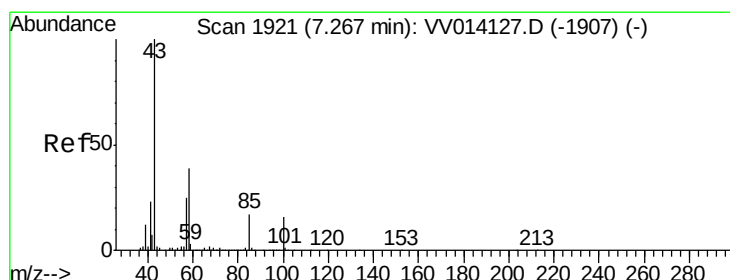
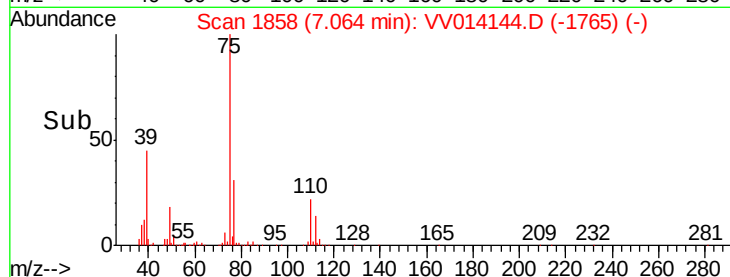
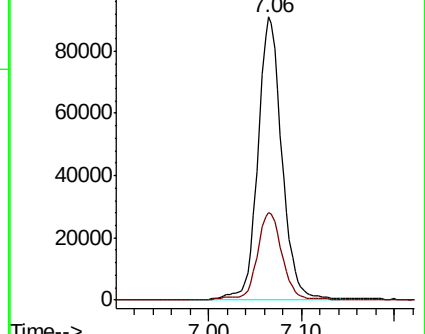
75 100

77 31.0 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 51.411 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

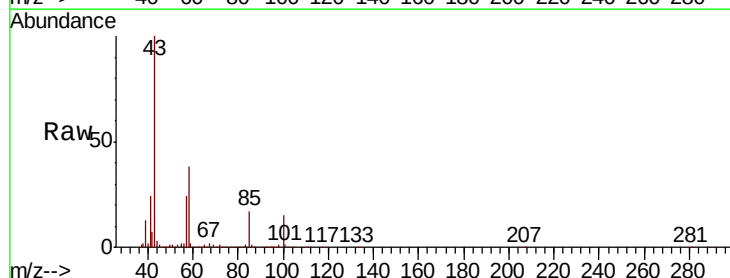
Tgt Ion: 43 Resp: 673698

Ion Ratio Lower Upper

43 100

58 37.9 32.3 48.5

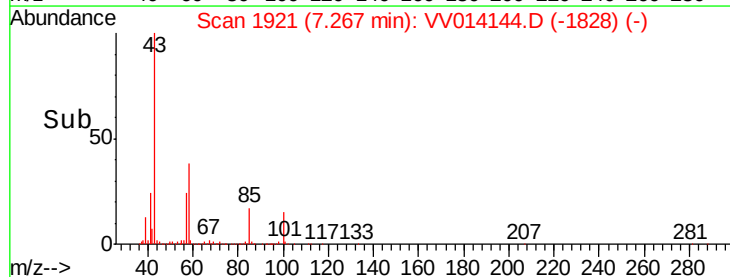
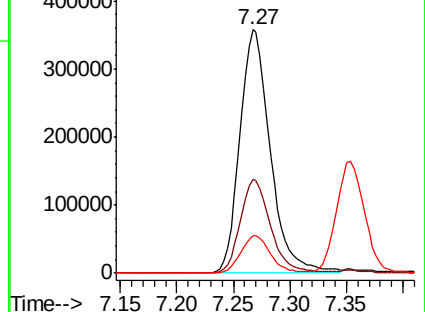
100 14.9 12.7 19.1

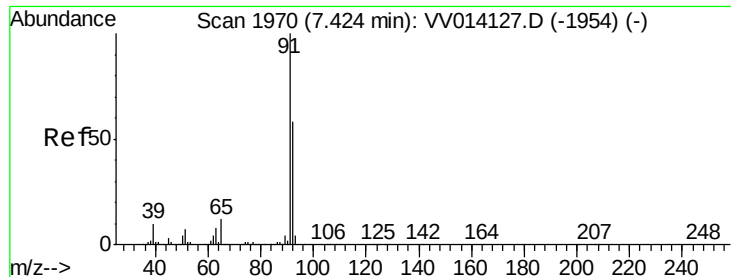


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.219 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

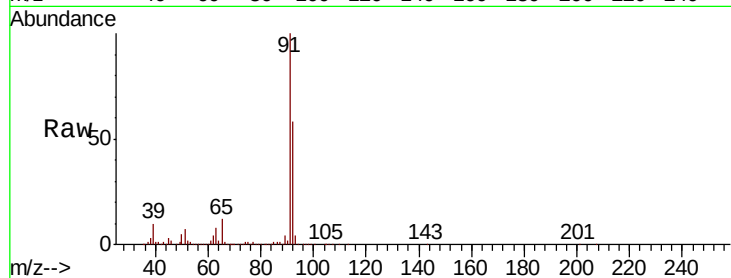
VSTD00559

Tot Ion: 91 Resp: 489171

Ion Ratio Lower Upper

91 100

92 58.5 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.42

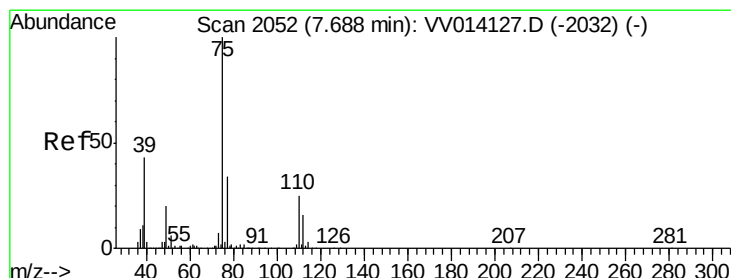
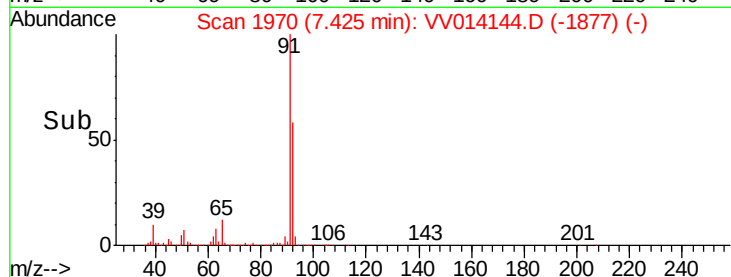
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.222 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014144.D

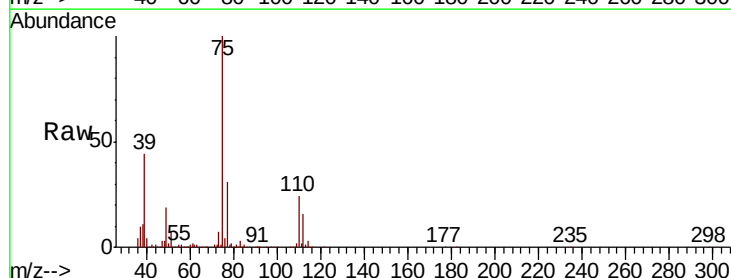
Acq: 20 Dec 2019 09:31

Tgt Ion: 75 Resp: 130255

Ion Ratio Lower Upper

75 100

77 31.3 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

80000

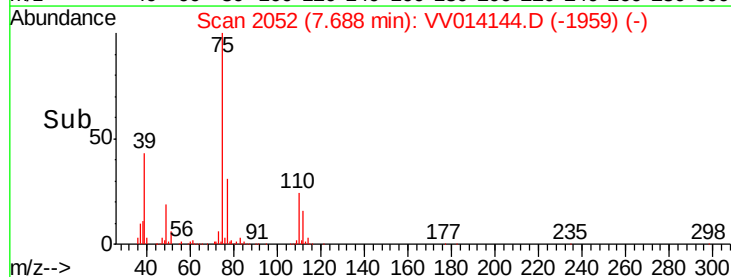
60000

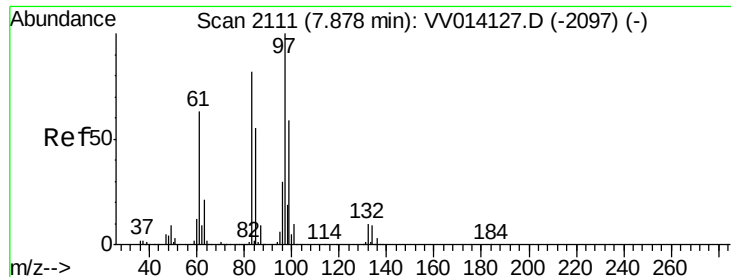
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.983 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

Tot Ion: 97 Resp: 79754

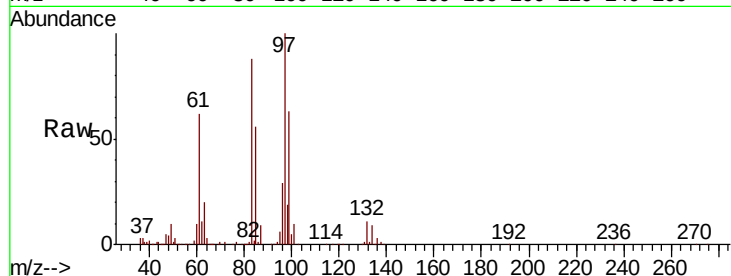
Ion Ratio Lower Upper

97 100

99 63.3 44.2 82.0

83 88.3 59.7 110.9

85 55.9 38.3 71.1

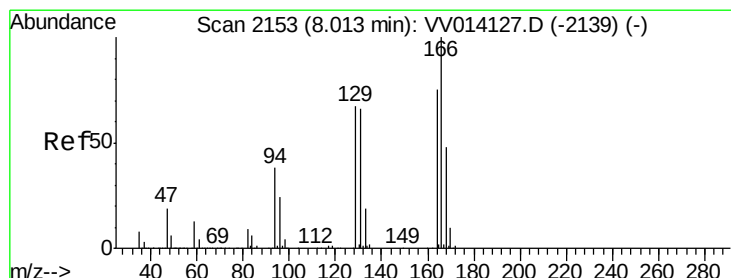
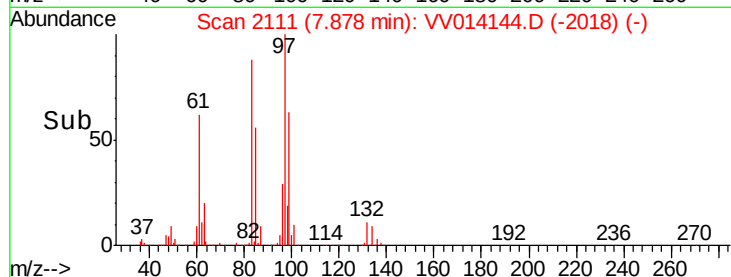
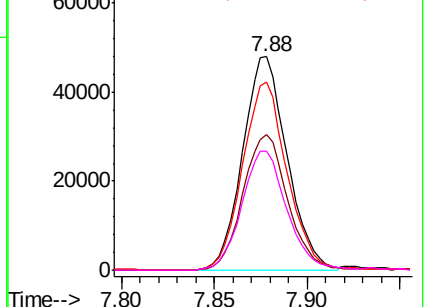


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.976 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Tgt Ion: 164 Resp: 104145

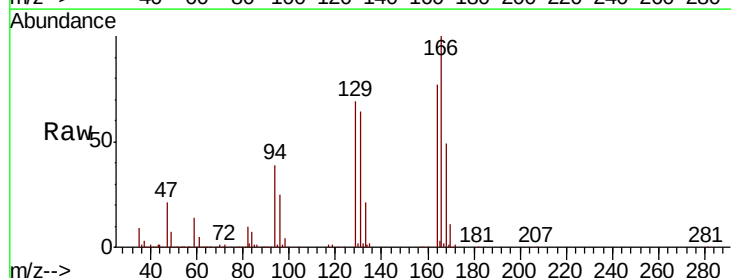
Ion Ratio Lower Upper

164 100

129 89.7 60.3 112.1

131 82.8 59.9 111.3

166 129.1 89.1 165.5

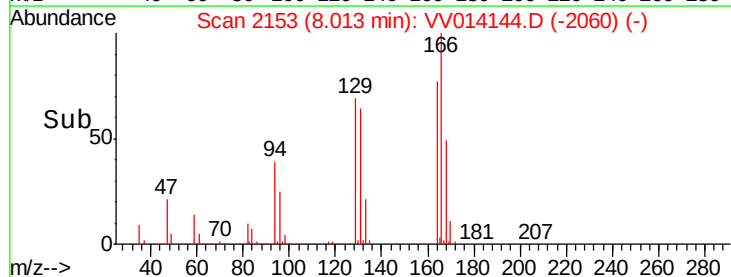
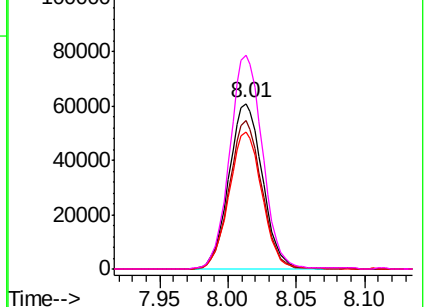


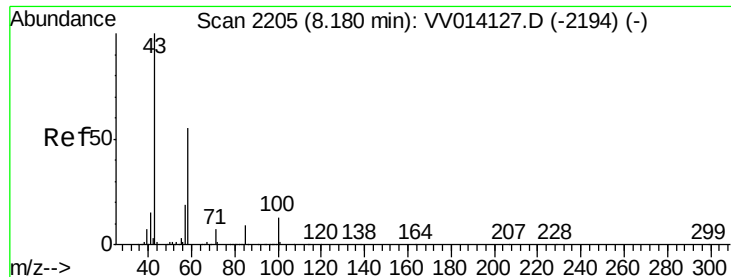
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

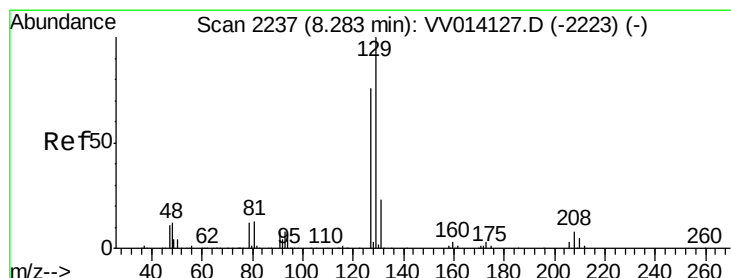
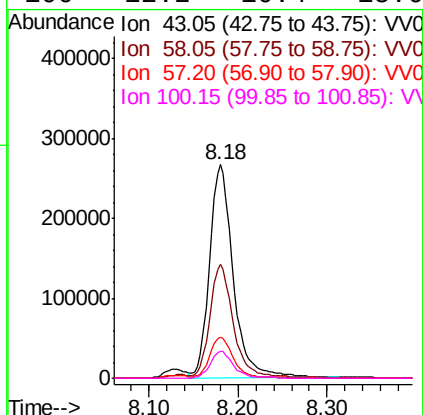
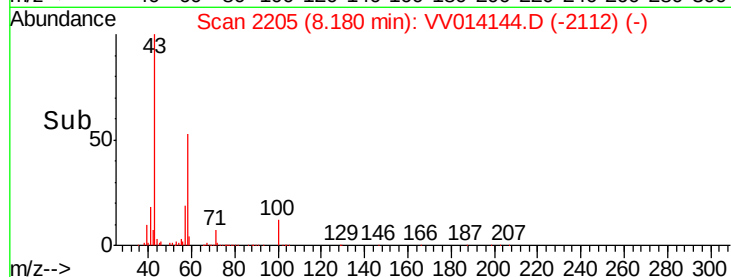
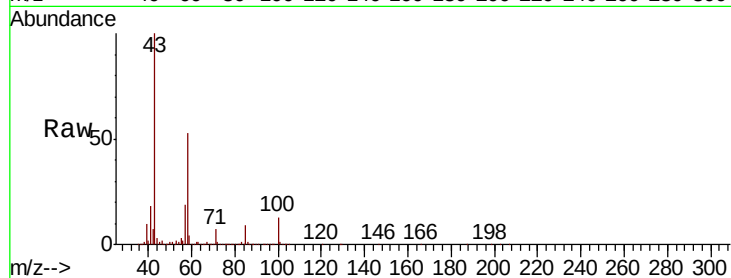




#48
2-Hexanone
Concen: 52.363 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

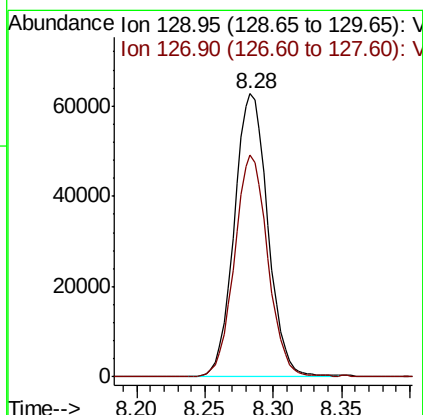
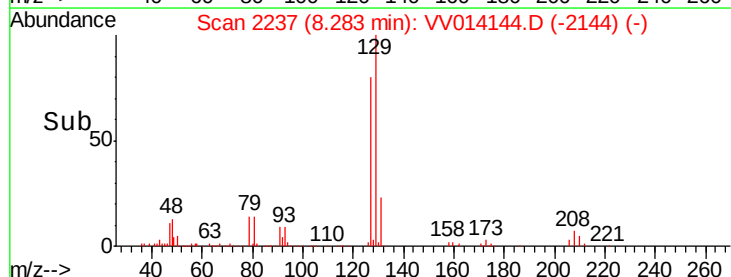
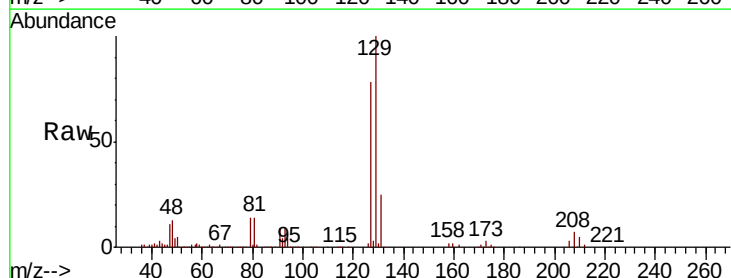
Instrument :
MSVOA_V
ClientSampleId :
VSTD00559

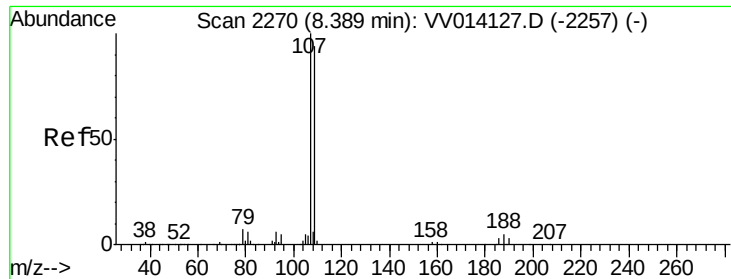
Tot Ion: 43 Resp: 489778
Ion Ratio Lower Upper
43 100
58 53.6 43.2 64.8
57 18.9 15.4 23.2
100 12.2 10.4 15.6



#49
Dibromochloromethane
Concen: 5.226 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VV014144.D
Acq: 20 Dec 2019 09:31

Tgt Ion: 129 Resp: 107284
Ion Ratio Lower Upper
129 100
127 78.4 55.7 103.5

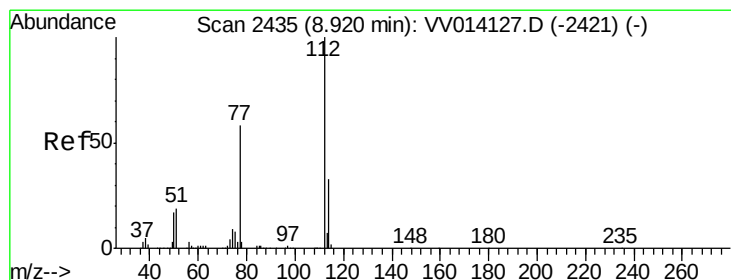
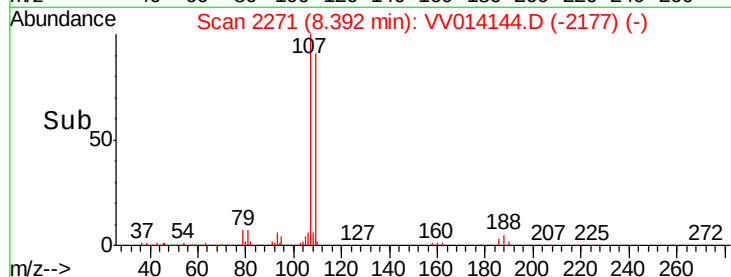
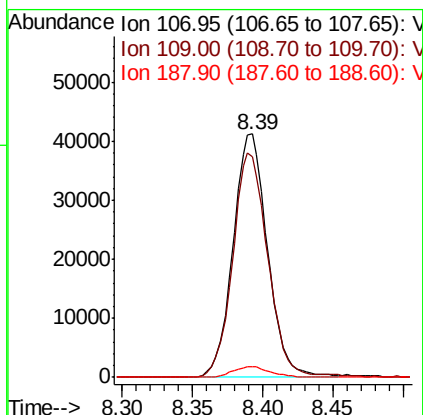
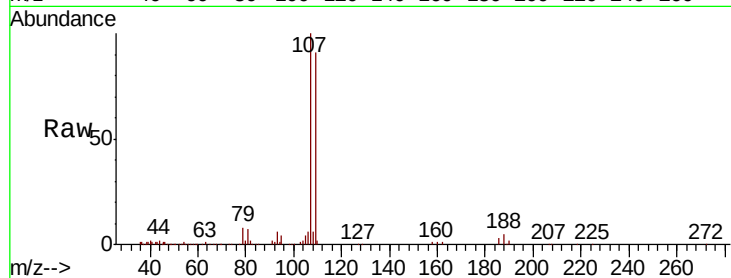




#50
 1,2-Dibromoethane
 Concen: 4.868 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

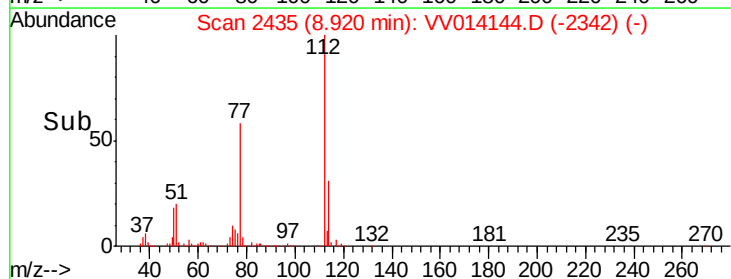
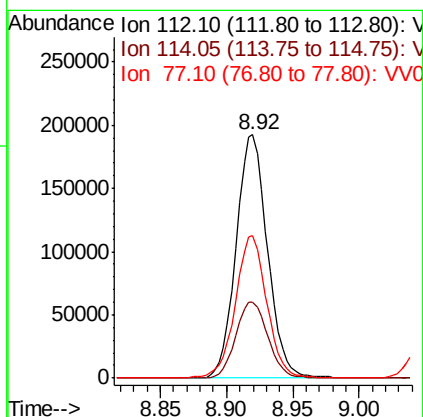
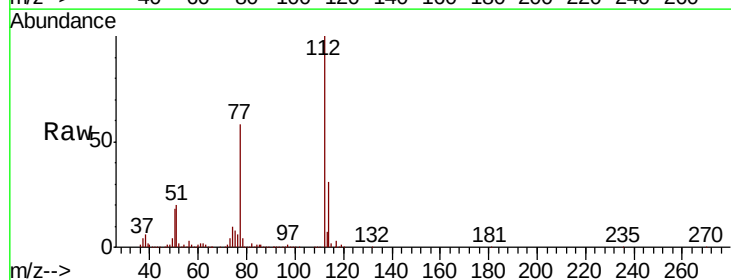
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00559

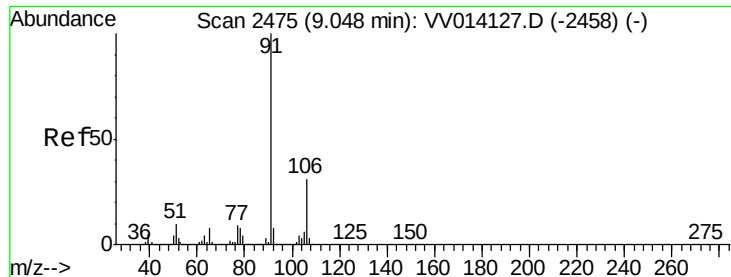
Tot Ion:107 Resp: 70563
 Ion Ratio Lower Upper
 107 100
 109 90.8 65.2 121.0
 188 4.5 4.2 6.2



#51
 Chlorobenzene
 Concen: 4.845 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Tgt Ion:112 Resp: 315983
 Ion Ratio Lower Upper
 112 100
 114 31.1 21.8 40.6
 77 58.4 44.2 66.4





#52

Ethylbenzene

Concen: 4.988 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

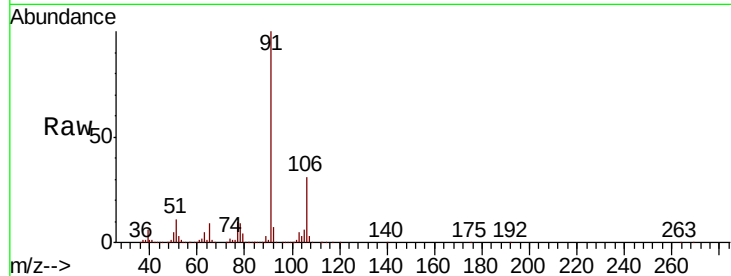
VSTD00559

Tot Ion: 91 Resp: 507888

Ion Ratio Lower Upper

91 100

106 31.0 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV014144.D (-2382) (-)

Ion 106.15 (105.85 to 106.85): VV014144.D (-2382) (-)

9.05

300000

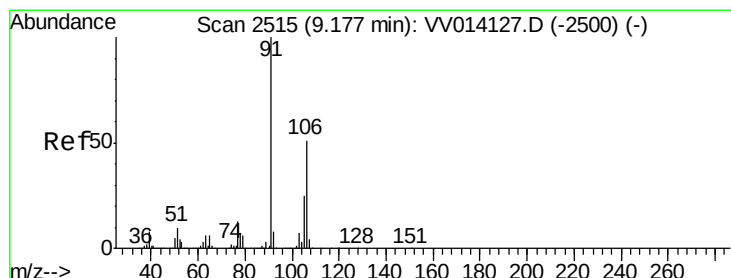
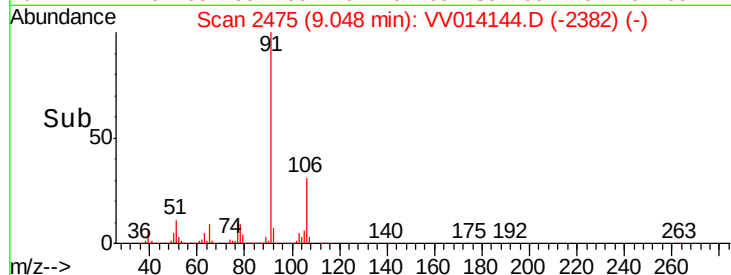
200000

100000

0

8.95 9.00 9.05 9.10 9.15

Time-->



#53

m,p-xylene

Concen: 5.002 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014144.D

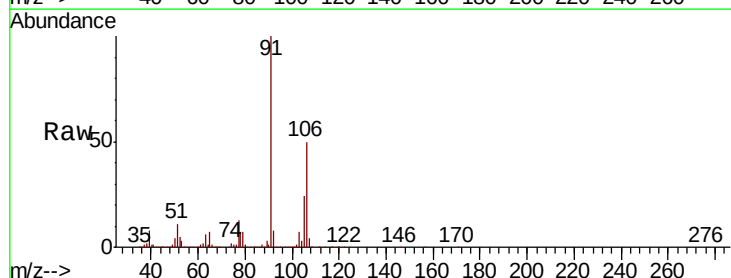
Acq: 20 Dec 2019 09:31

Tgt Ion: 106 Resp: 194144

Ion Ratio Lower Upper

106 100

91 199.9 139.9 259.9



Abundance Ion 106.15 (105.85 to 106.85): VV014144.D (-2422) (-)

Ion 91.15 (90.85 to 91.85): VV014144.D (-2422) (-)

9.18

250000

200000

150000

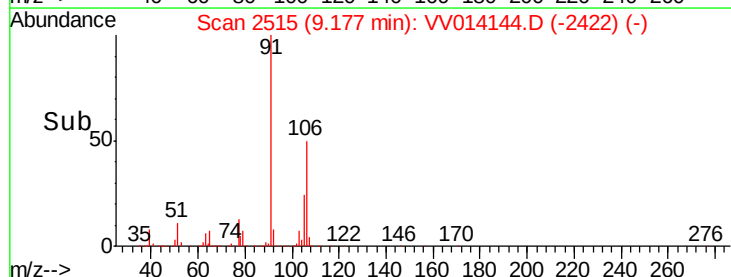
100000

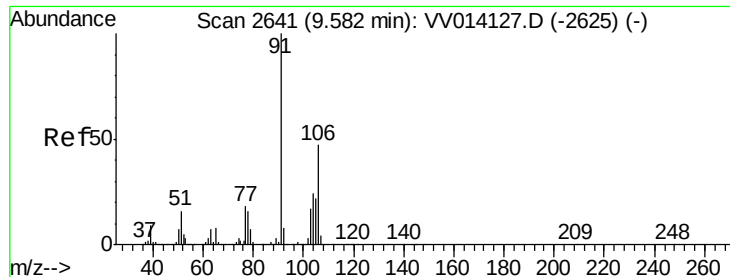
50000

0

9.10 9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 4.968 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

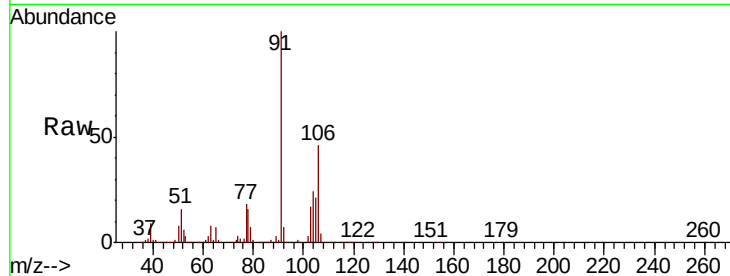
VSTD00559

Tot Ion:106 Resp: 188273

Ion Ratio Lower Upper

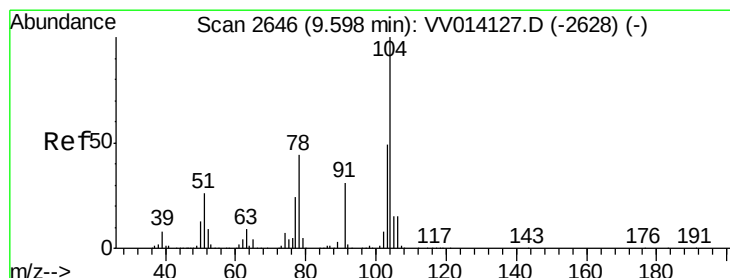
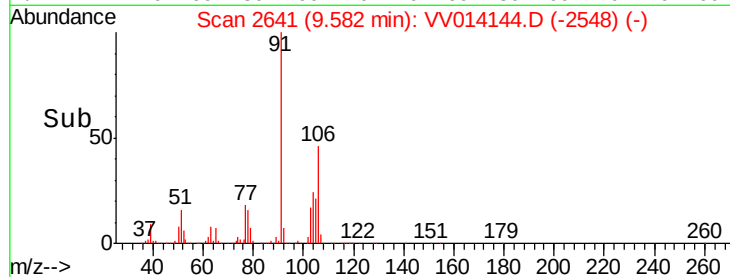
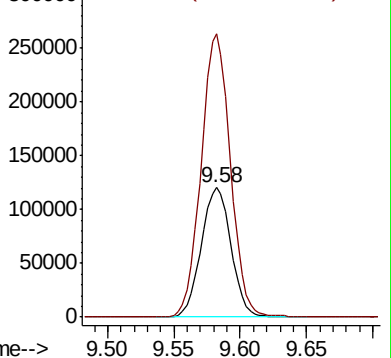
106 100

91 218.2 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.152 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014144.D

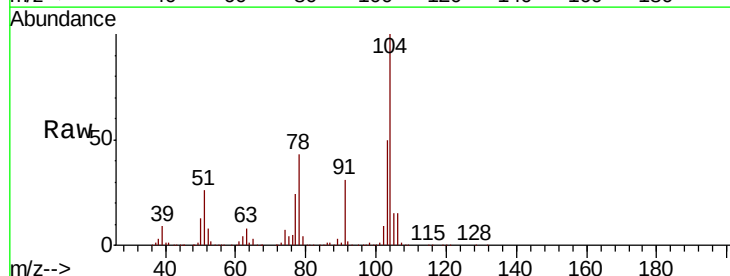
Acq: 20 Dec 2019 09:31

Tgt Ion:104 Resp: 337123

Ion Ratio Lower Upper

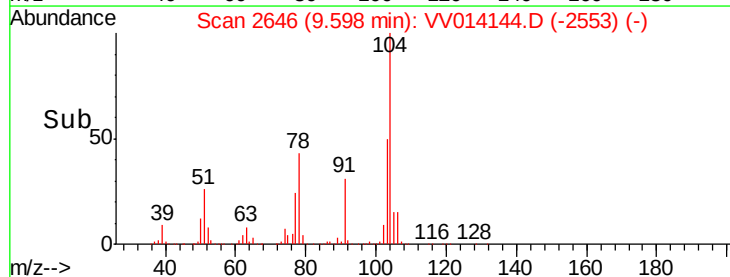
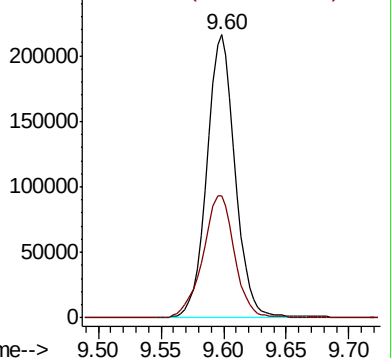
104 100

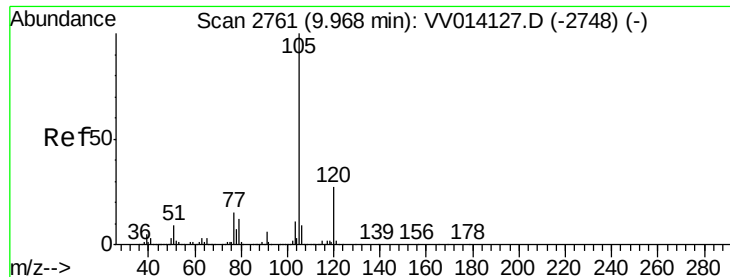
78 43.3 31.0 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.343 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

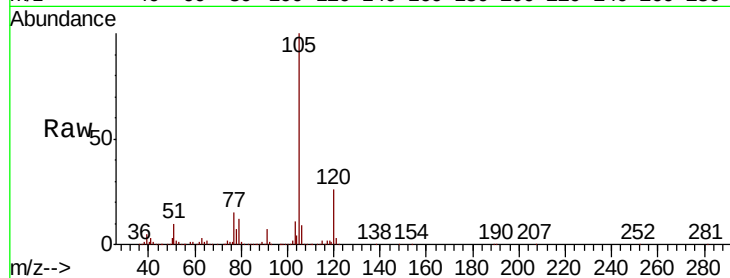
Tot Ion:105 Resp: 551830

Ion Ratio Lower Upper

105 100

120 26.5 21.3 31.9

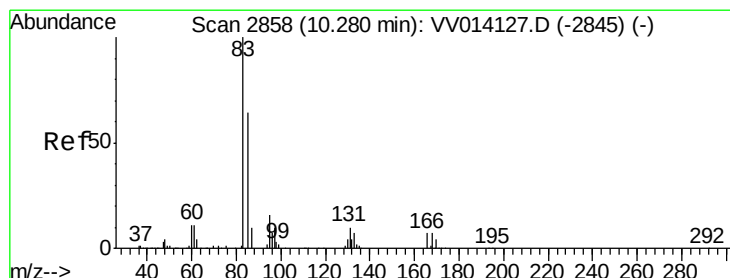
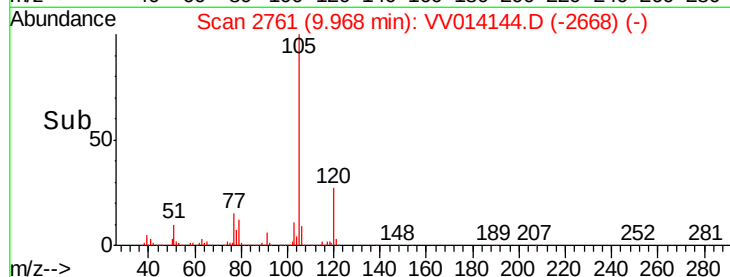
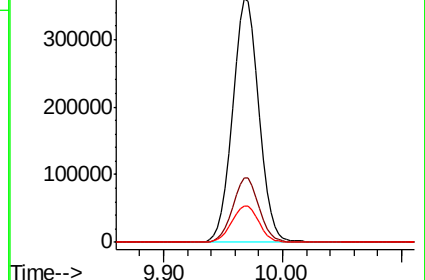
77 15.5 12.1 18.1



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: 5.727 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

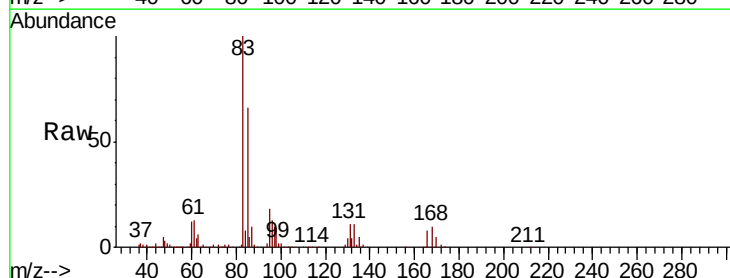
Tgt Ion: 83 Resp: 100724

Ion Ratio Lower Upper

83 100

85 66.2 45.1 83.7

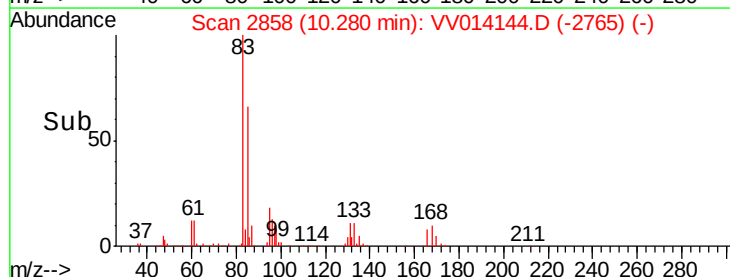
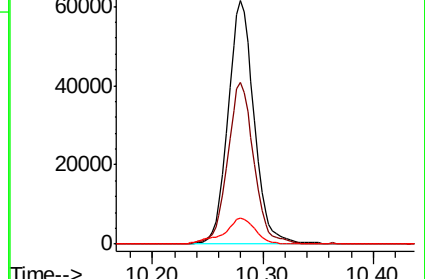
131 10.5 9.3 13.9

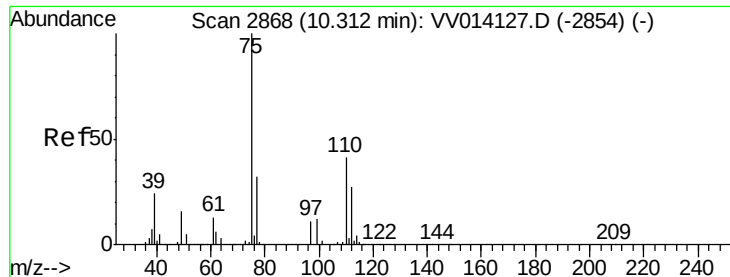


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.270 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

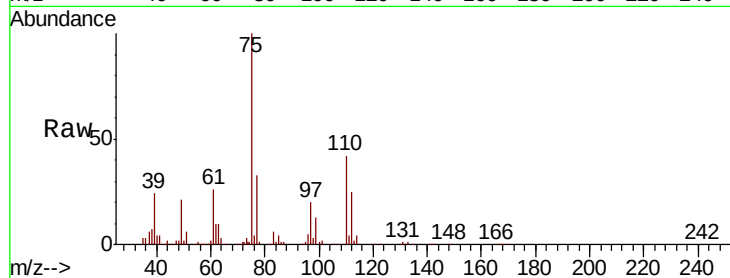
VSTD00559

Tot Ion: 75 Resp: 72659

Ion Ratio Lower Upper

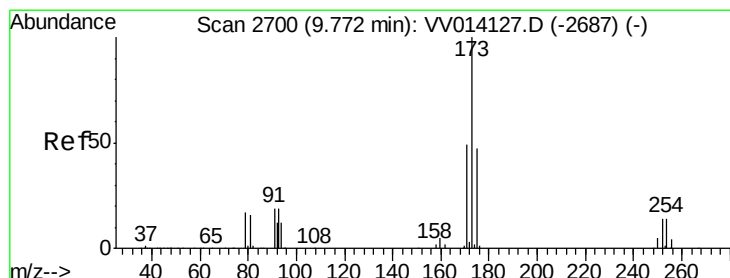
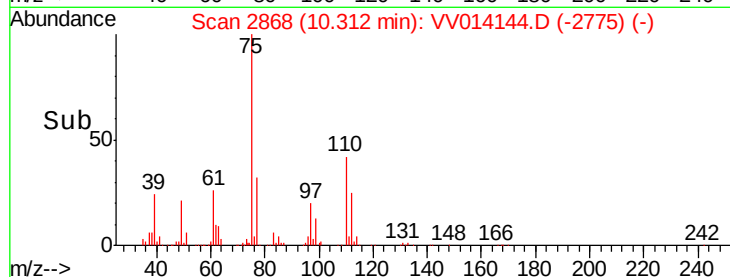
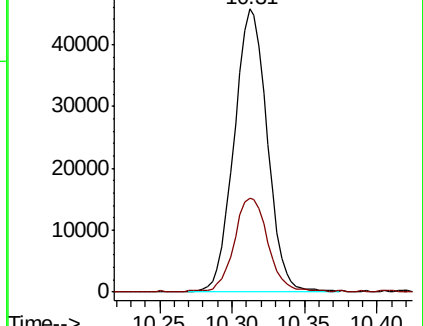
75 100

77 33.3 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV014127.D (-2854) (-)

Ion 77.00 (76.70 to 77.70): VV014127.D (-2854) (-)



#61

Bromoform

Concen: 4.819 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

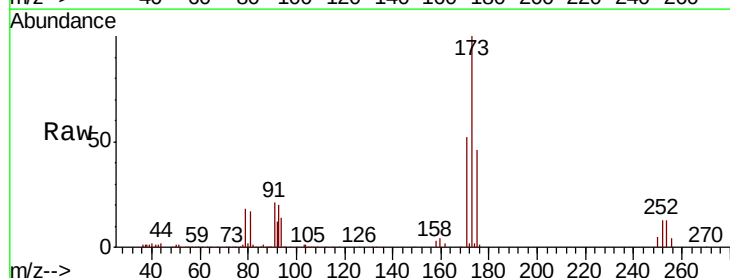
Tgt Ion: 173 Resp: 62417

Ion Ratio Lower Upper

173 100

175 49.0 39.1 58.7

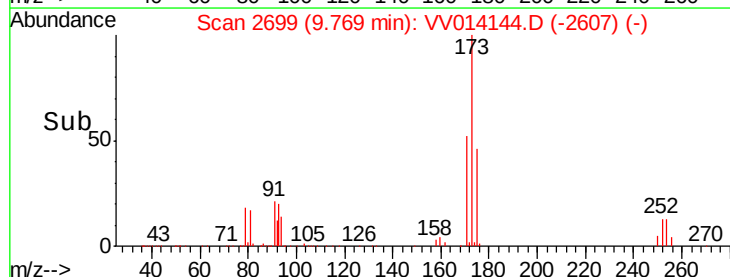
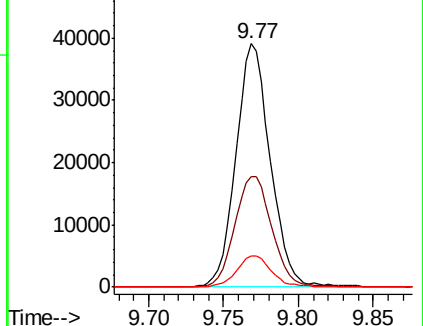
254 13.2 10.4 15.6

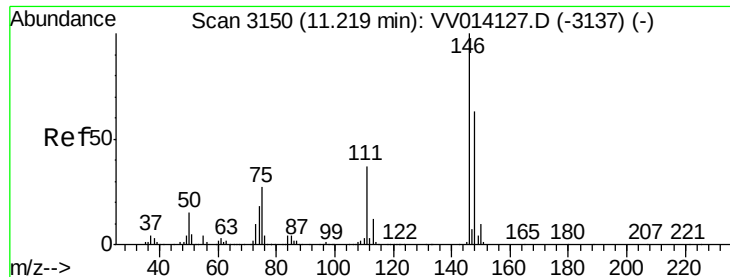


Abundance Ion 172.90 (172.60 to 173.60): VV014127.D (-2687) (-)

Ion 174.90 (174.60 to 175.60): VV014127.D (-2687) (-)

Ion 253.75 (253.45 to 254.45): VV014127.D (-2687) (-)





#62

1,3-Dichlorobenzene

Concen: 4.934 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

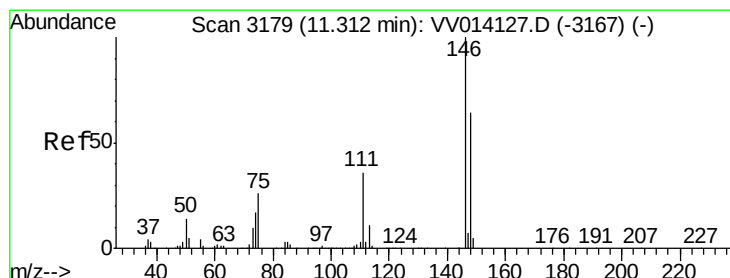
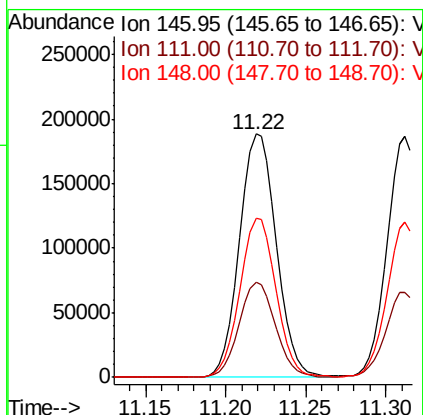
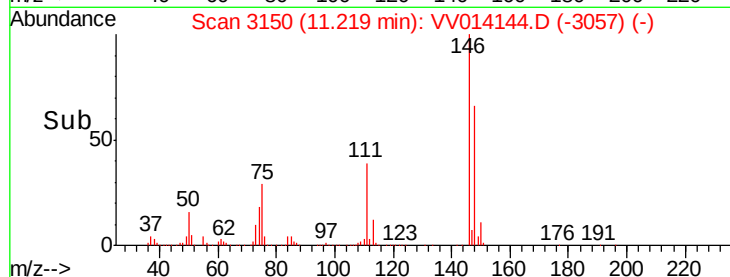
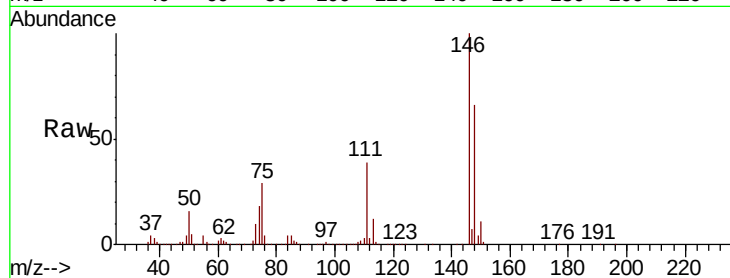
Tot Ion:146 Resp: 295046

Ion Ratio Lower Upper

146 100

111 39.2 25.6 47.6

148 65.5 44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 4.786 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

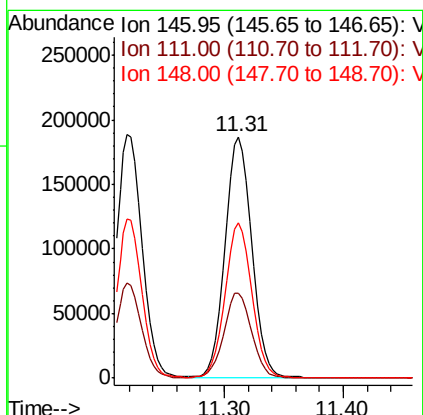
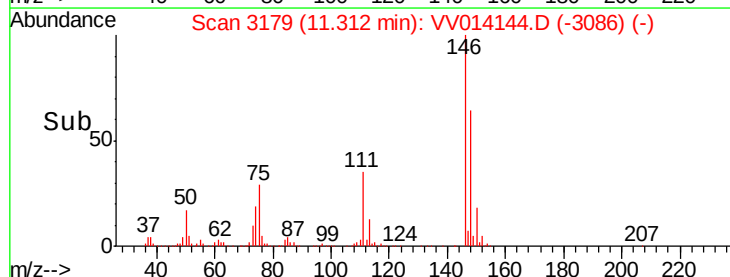
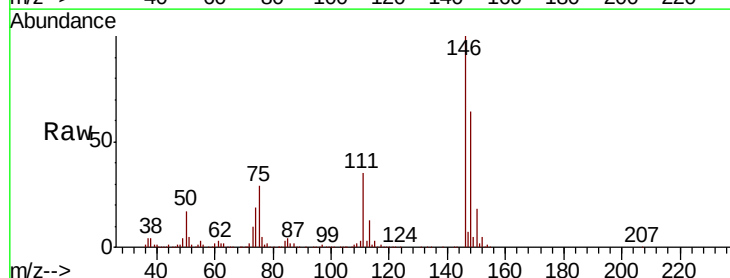
Tgt Ion:146 Resp: 291258

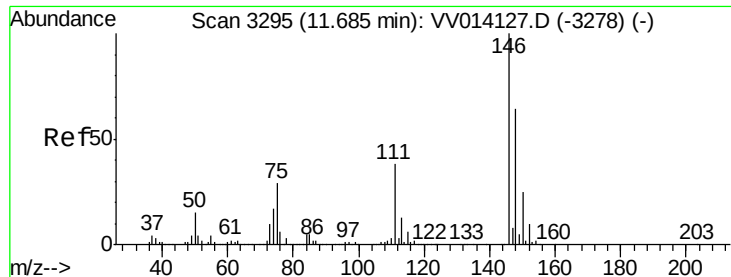
Ion Ratio Lower Upper

146 100

111 35.4 25.0 46.4

148 64.5 45.4 84.2

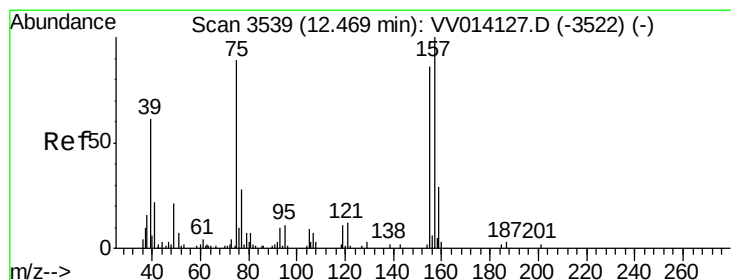
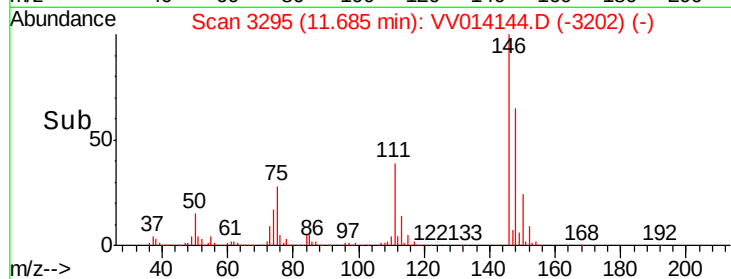
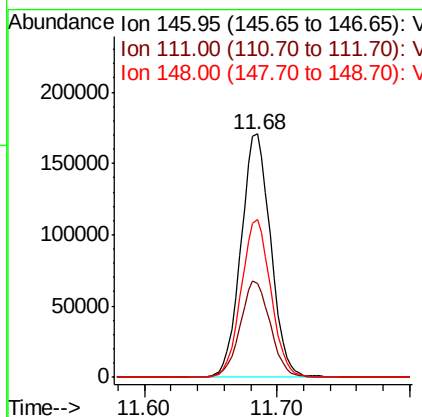
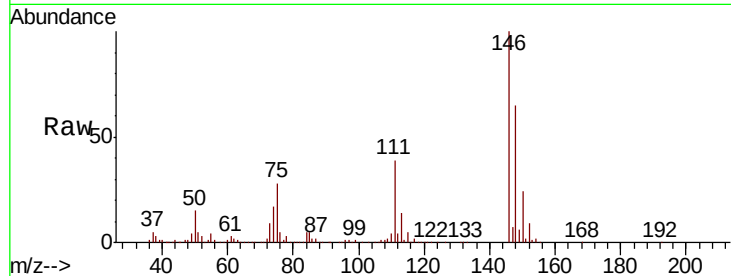




#65
 1,2-Dichlorobenzene
 Concen: 4.793 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

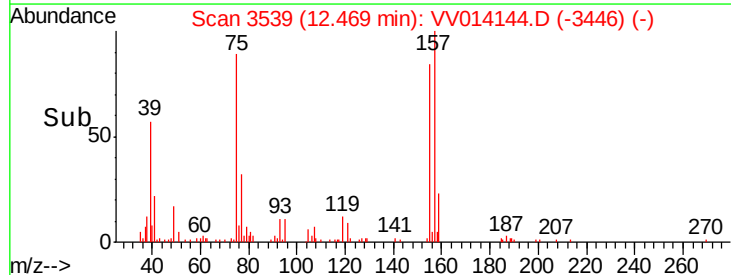
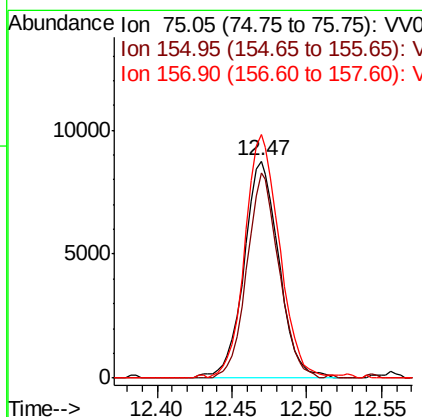
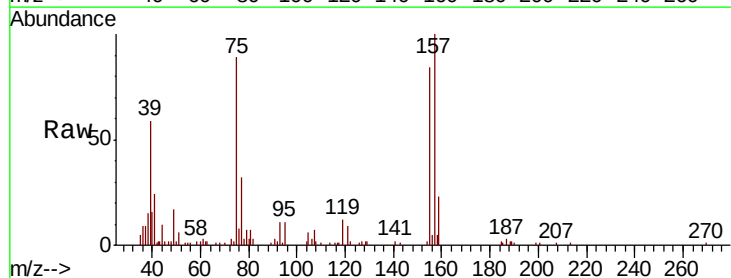
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00559

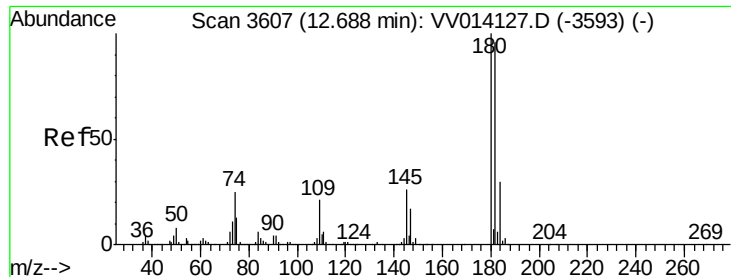
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	31.3	46.9
148	64.7	52.2	78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.408 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.8	73.4	110.0
157	112.3	98.7	148.1

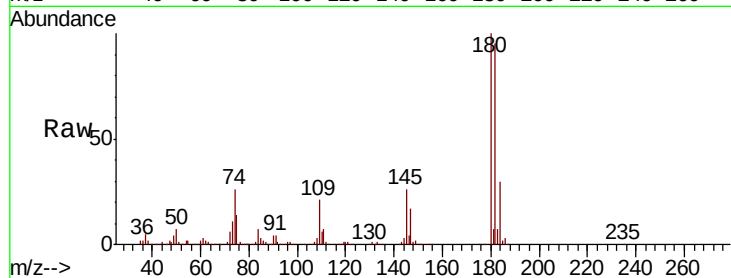




#67
 1,3,5-Trichlorobenzene
 Concen: 4.776 ug/L
 RT: 12.68 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00559

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	74.8	112.2
184	31.1	23.2	34.8
145	27.7	21.3	31.9



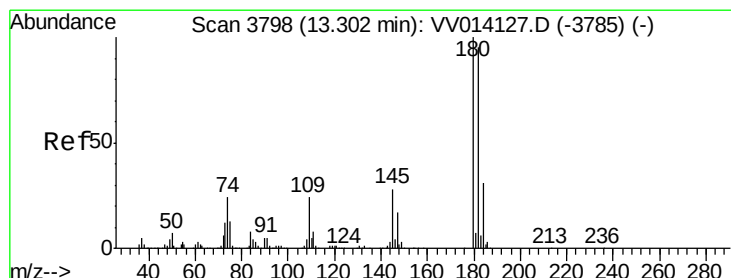
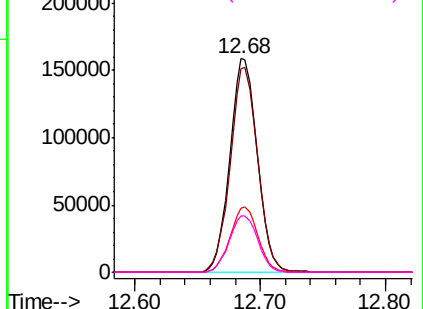
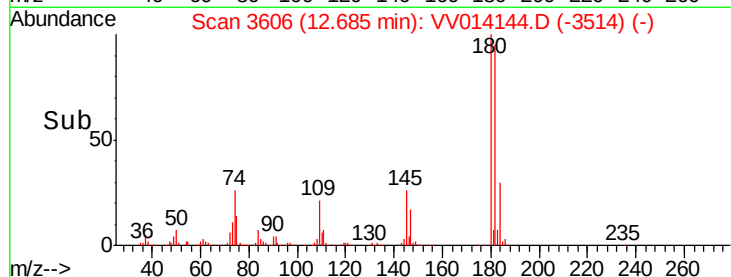
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

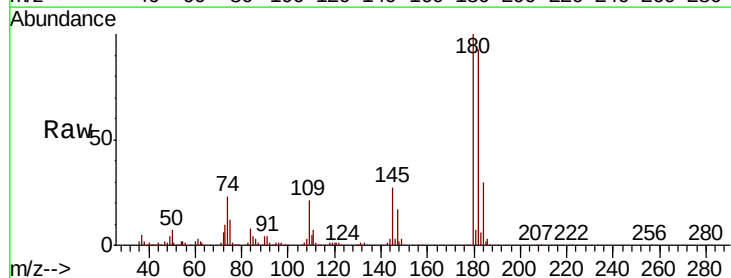
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.551 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. 0.00 min
 Lab File: VV014144.D
 Acq: 20 Dec 2019 09:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.2	114.4
145	27.5	21.0	31.6

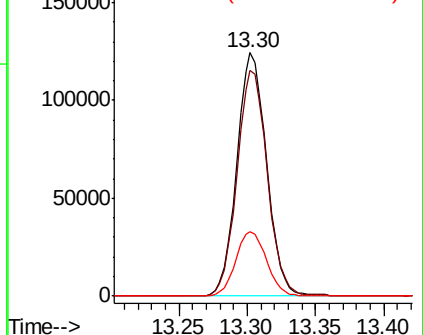
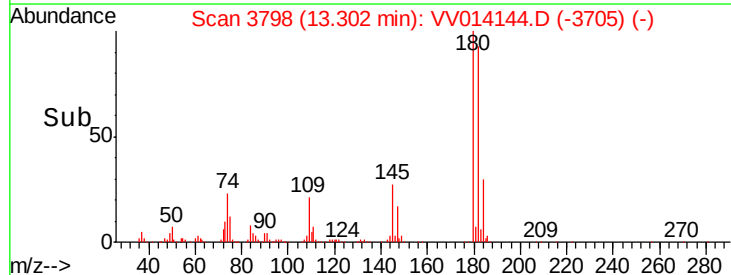


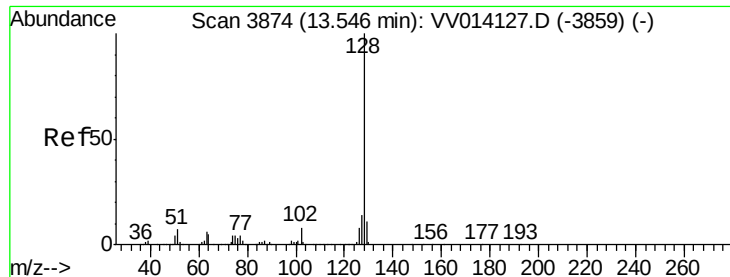
Abundance

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: 3.661 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD00559

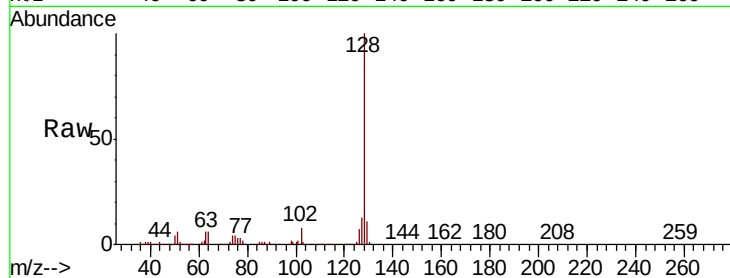
Tot Ion:128 Resp: 206463

Ion Ratio Lower Upper

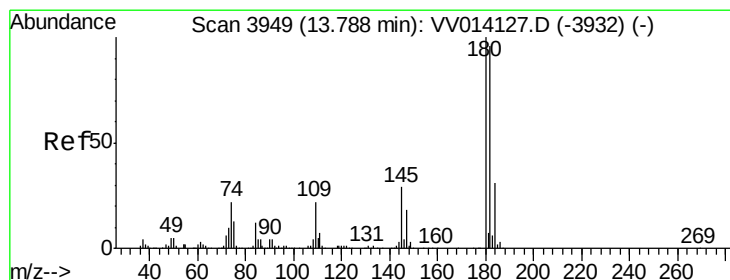
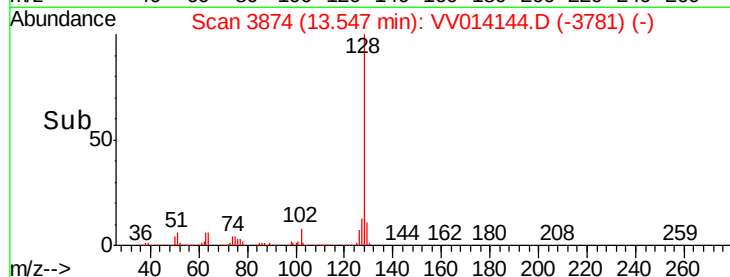
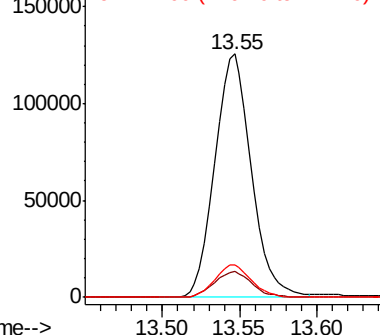
128 100

129 11.2 8.6 12.8

127 13.3 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: 4.542 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014144.D

Acq: 20 Dec 2019 09:31

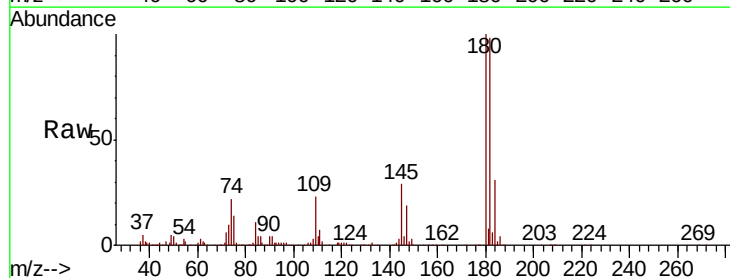
Tgt Ion:180 Resp: 171385

Ion Ratio Lower Upper

180 100

182 96.9 78.5 117.7

145 29.1 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

