

Data File : VV013975.D
Acq On : 09 Dec 2019 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

Quant Time: Dec 10 04:34:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 10 04:29:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	711278	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	673813	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	353737	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	194841	47.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.72%
7) Chloroethane-d5	1.57	69	204330	47.59	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.18%
11) 1,1-Dichloroethene-d2	2.13	63	432598	47.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.12%
21) 2-Butanone-d5	3.92	46	265886	91.83	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.83%
24) Chloroform-d	4.40	84	379275	43.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.80%
26) 1,2-Dichloroethane-d4	5.08	65	229473	41.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.84%
32) Benzene-d6	5.09	84	763412	43.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.44%
36) 1,2-Dichloropropane-d6	6.11	67	233464	44.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.08%
41) Toluene-d8	7.35	98	713743	44.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.68%
43) trans-1,3-Dichloropropene-	7.66	79	106604	41.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.60%
47) 2-Hexanone-d5	8.13	63	175969	89.92	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.92%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	306039	40.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	80.66%
64) 1,2-Dichlorobenzene-d4	11.67	152	303147	43.63	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.26%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	276723	43.694	ug/L	99
3) Chloromethane	1.25	50	292610	50.537	ug/L	99
5) Vinyl chloride	1.32	62	283833	47.002	ug/L	98
6) Bromomethane	1.52	94	190609	52.206	ug/L	100
8) Chloroethane	1.59	64	202025	50.279	ug/L	100
9) Trichlorofluoromethane	1.77	101	459071	48.877	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	255267	47.718	ug/L	99
12) 1,1-Dichloroethene	2.14	96	248741	48.138	ug/L	94
13) Acetone	2.18	43	265972	62.683	ug/L	96
14) Carbon disulfide	2.32	76	573506	42.087	ug/L	100
15) Methyl Acetate	2.45	43	244839	46.820	ug/L	99
16) Methylene chloride	2.53	84	248499	46.181	ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	226075	44.730	ug/L	98
18) Methyl tert-butyl Ether	2.80	73	691684	47.158	ug/L	99
19) 1,1-Dichloroethane	3.23	63	420273	46.153	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	253692	46.350	ug/L	99
22) 2-Butanone	4.00	43	334845	82.217	ug/L	97

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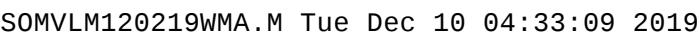
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

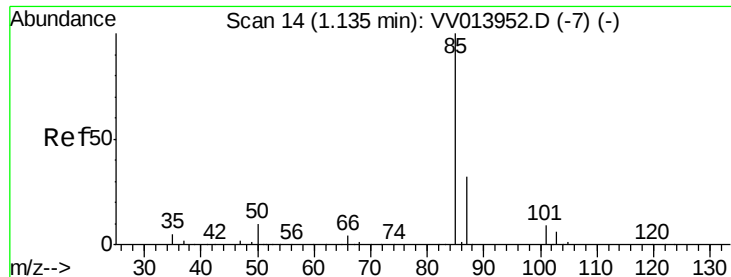
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	139600	46.164	ug/L	97
25) Chloroform	4.42	83	438199	45.013	ug/L	99
27) 1,2-Dichloroethane	5.17	62	326902	46.603	ug/L	100
29) Cyclohexane	4.72	56	363161	46.131	ug/L	100
30) 1,1,1-Trichloroethane	4.65	97	376207	46.249	ug/L	100
31) Carbon tetrachloride	4.87	117	339740	46.755	ug/L	99
33) Benzene	5.14	78	954261	47.556	ug/L	100
34) Trichloroethene	5.96	95	253201	47.047	ug/L	99
35) Methylcyclohexane	6.17	83	376856	46.669	ug/L	99
37) 1,2-Dichloropropane	6.22	63	243763	50.192	ug/L	99
38) Bromodichloromethane	6.55	83	326809	47.450	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	372987	48.785	ug/L	100
40) 4-Methyl-2-pentanone	7.26	43	632213	100.109	ug/L	99
42) Toluene	7.43	91	1025471	49.531	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	319039	46.082	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	233566	48.451	ug/L	97
46) Tetrachloroethene	8.01	164	219869	45.273	ug/L	97
48) 2-Hexanone	8.18	43	454426	89.952	ug/L	96
49) Dibromochloromethane	8.29	129	280370	47.579	ug/L	99
50) 1,2-Dibromoethane	8.39	107	254035	47.837	ug/L	99
51) Chlorobenzene	8.92	112	656243	45.943	ug/L	99
52) Ethylbenzene	9.05	91	1067468	46.770	ug/L	99
53) m,p-Xylene	9.18	106	425854	48.249	ug/L	97
54) o-xylene	9.58	106	414560	48.038	ug/L	99
55) Styrene	9.60	104	707659	47.529	ug/L	99
56) Isopropylbenzene	9.97	105	1088421	46.922	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	352228	44.882	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	299318	45.543	ug/L	99
61) Bromoform	9.77	173	218023	50.385	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	540025	46.526	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	528853	44.073	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	559605	48.199	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	73128	45.321	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	417522	44.296	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	321264	37.774	ug/L	98
69) Naphthalene	13.55	128	589385	26.393	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	382565	43.013	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 43.694 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

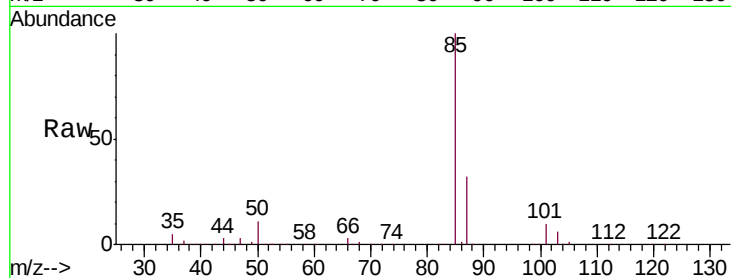
VSTD05074

Tgt Ion: 85 Resp: 276723

Ion Ratio Lower Upper

85 100

87 32.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

300000

250000

200000

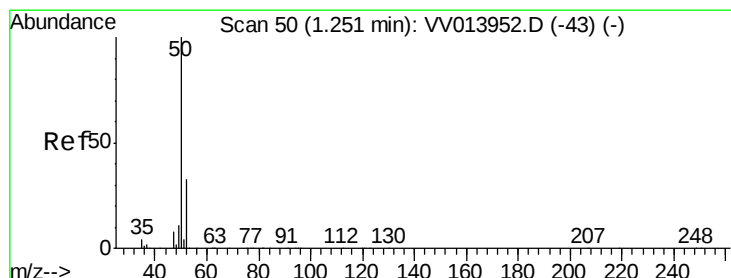
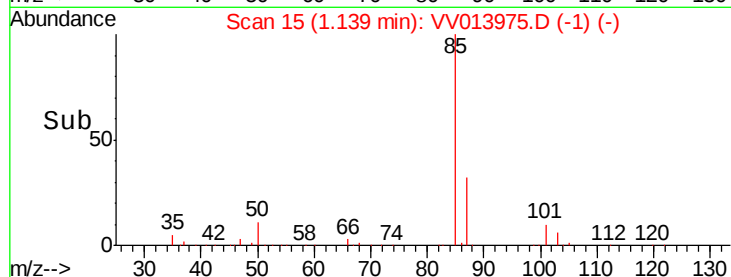
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.537 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013975.D

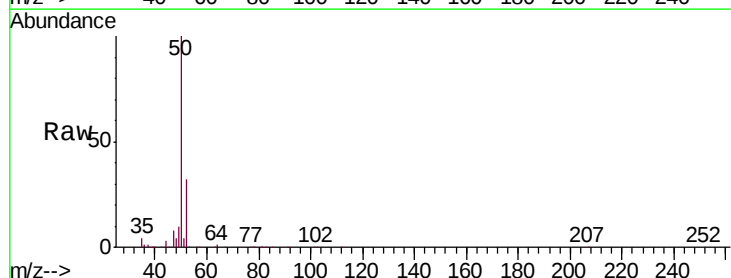
Acq: 09 Dec 2019 20:38

Tgt Ion: 50 Resp: 292610

Ion Ratio Lower Upper

50 100

52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

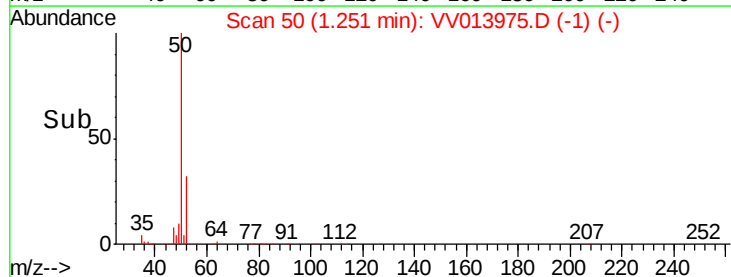
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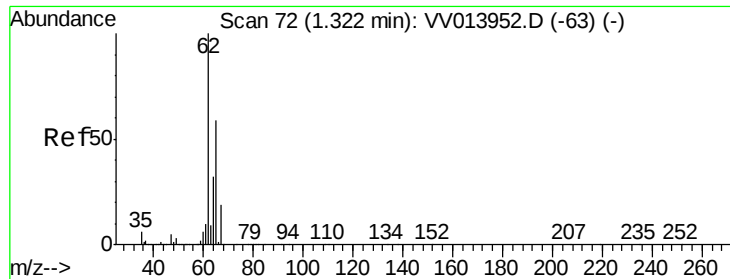
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 47.002 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

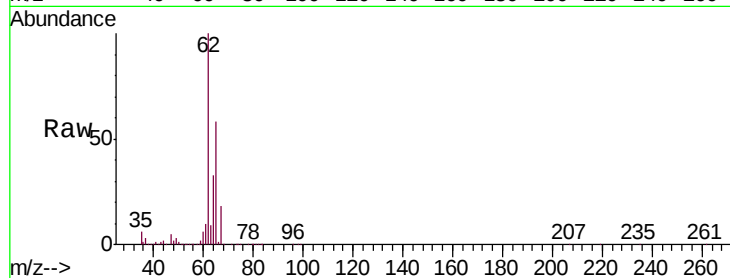
VSTD05074

Tgt Ion: 62 Resp: 283833

Ion Ratio Lower Upper

62 100

64 33.4 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

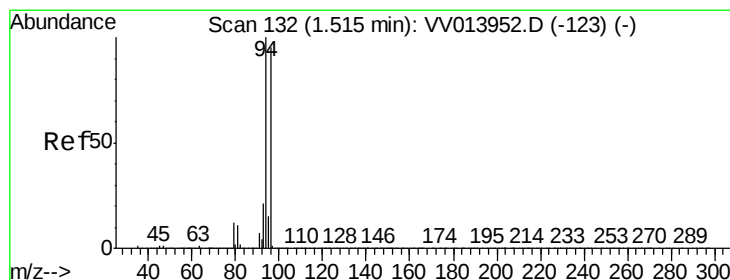
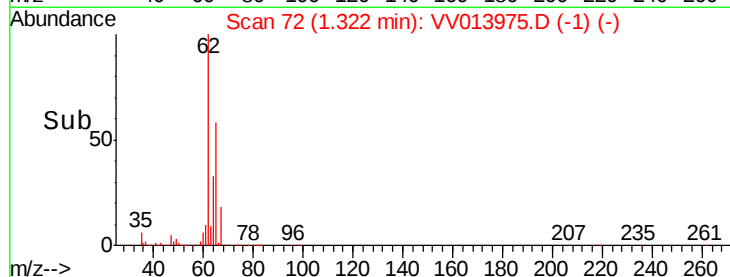
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 52.206 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV013975.D

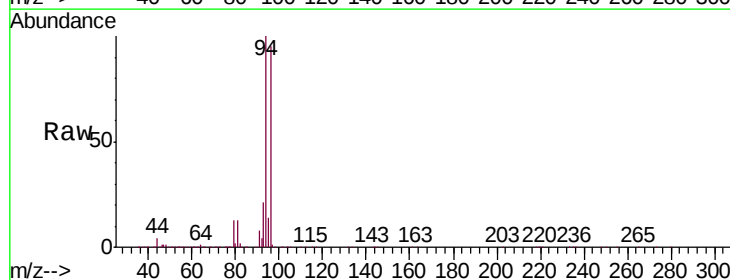
Acq: 09 Dec 2019 20:38

Tgt Ion: 94 Resp: 190609

Ion Ratio Lower Upper

94 100

96 94.8 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.52

200000

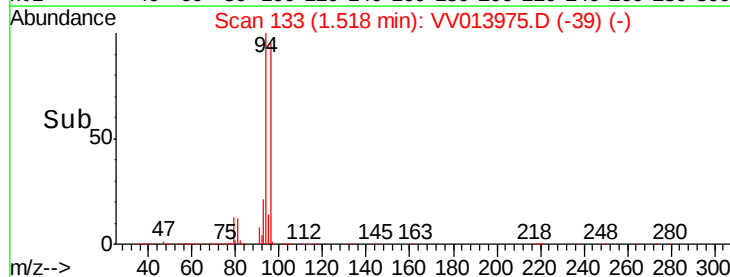
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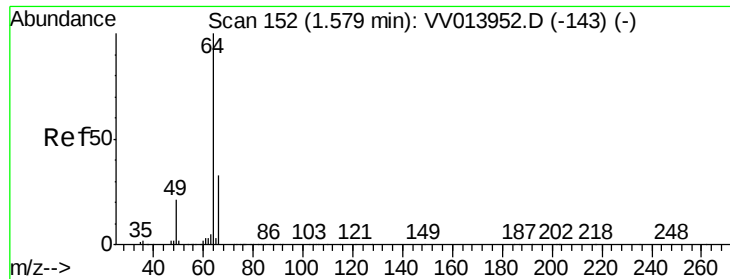
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Time-->

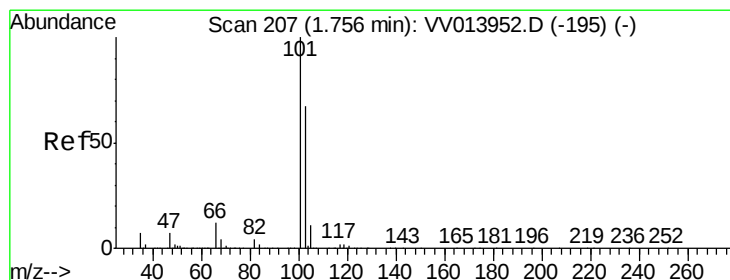
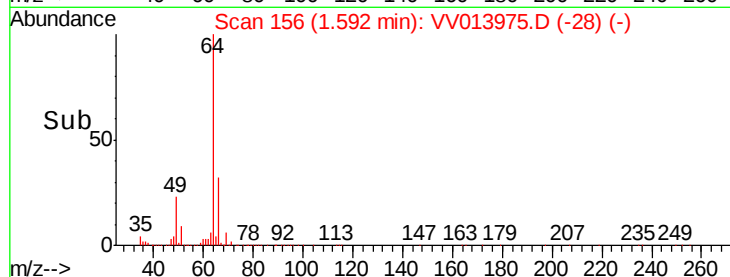
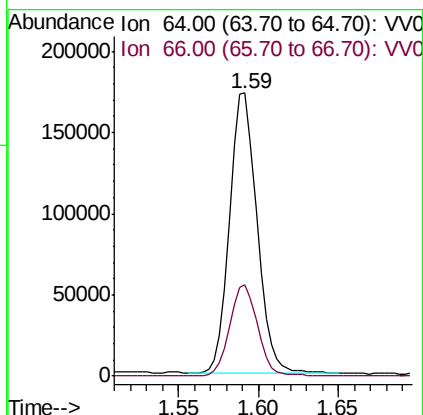
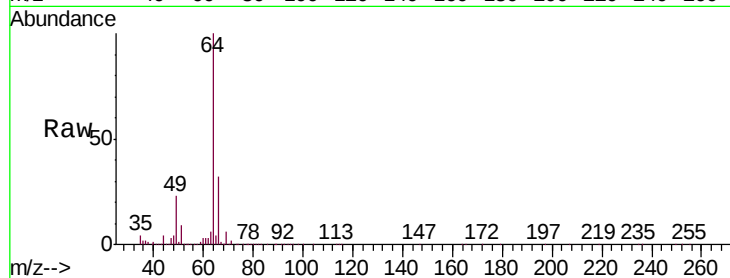




#8
Chloroethane
Concen: 50.279 ug/L
RT: 1.59 min Scan# 156
Delta R.T. 0.01 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

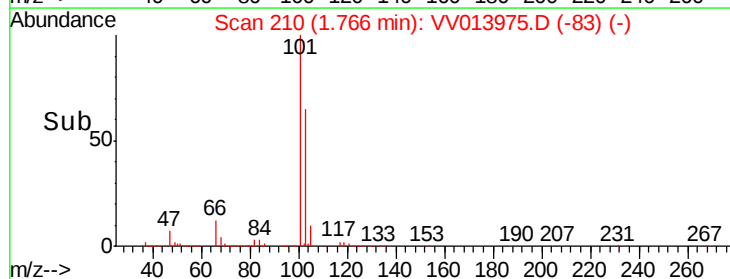
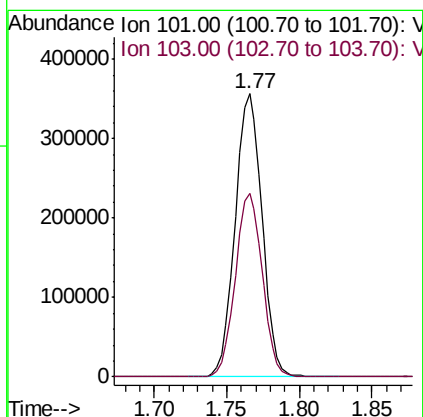
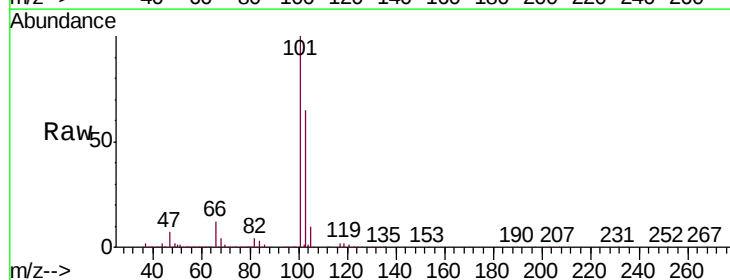
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

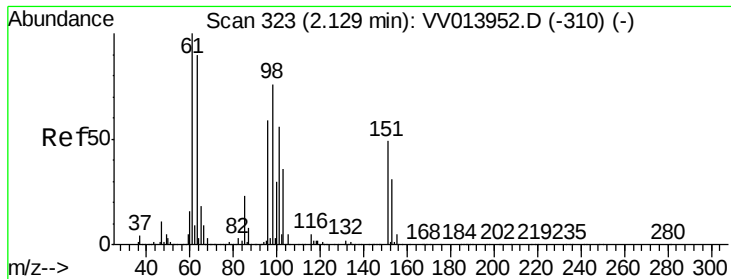
Tgt Ion: 64 Resp: 202025
Ion Ratio Lower Upper
64 100
66 32.2 22.7 42.1



#9
Trichlorofluoromethane
Concen: 48.877 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.01 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Tgt Ion: 101 Resp: 459071
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9





#10

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

Concen: 47.718 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

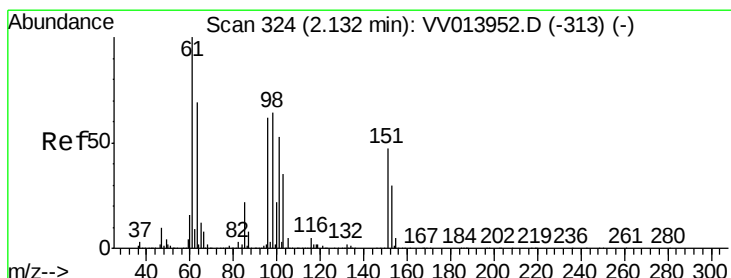
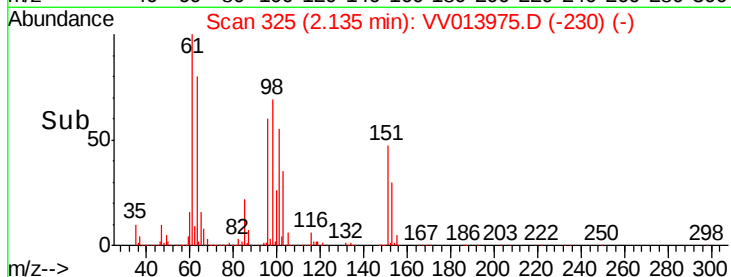
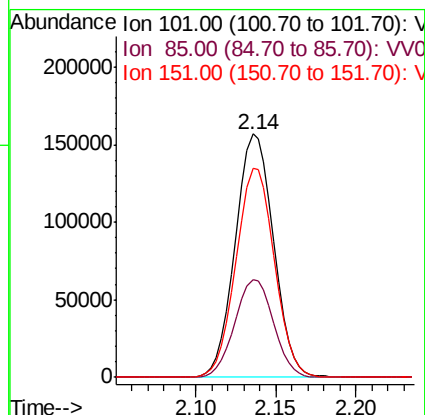
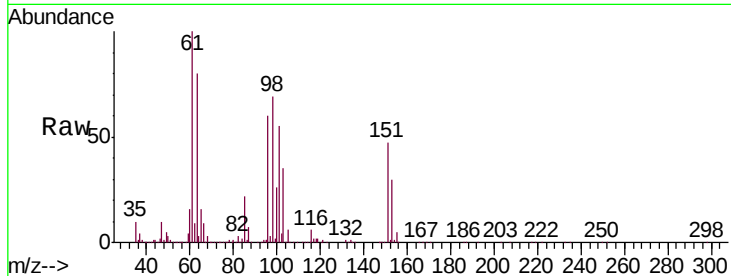
Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

Tgt Ion:	101	Resp:	255267
Ion	Ratio	Lower	Upper
101	100		
85	40.9	32.5	48.7
151	86.7	69.8	104.6



#12

1,1-Dichloroethene

Concen: 48.138 ug/L

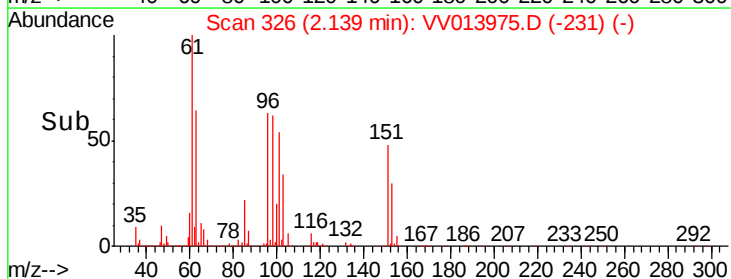
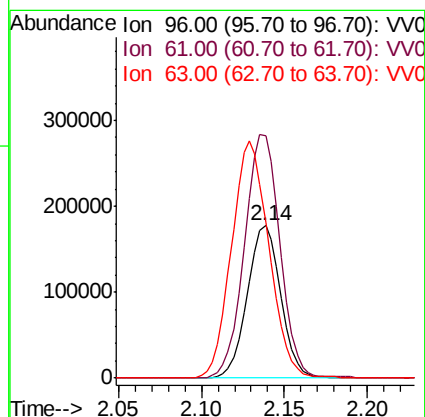
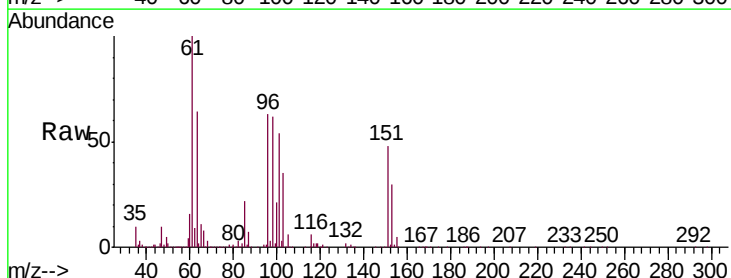
RT: 2.14 min Scan# 326

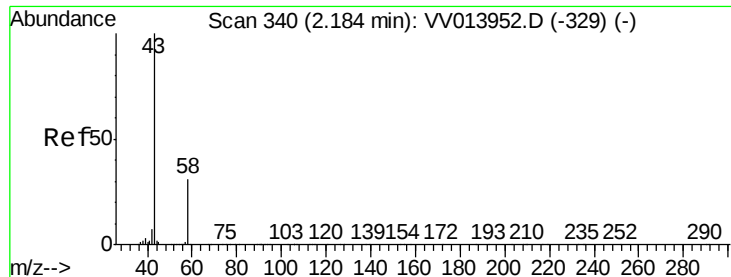
Delta R.T. 0.01 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Tgt Ion:	96	Resp:	248741
Ion	Ratio	Lower	Upper
96	100		
61	159.3	114.0	211.8
63	102.2	80.3	149.1





#13

Acetone

Concen: 62.683 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

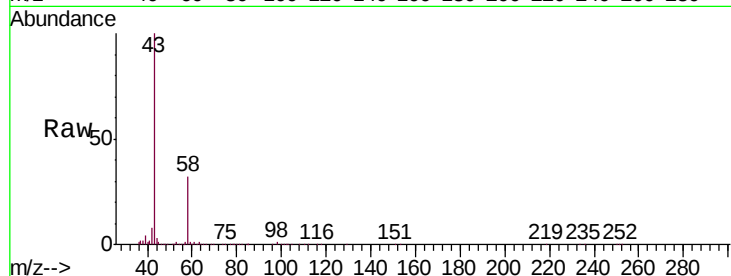
VSTD05074

Tgt Ion: 43 Resp: 265972

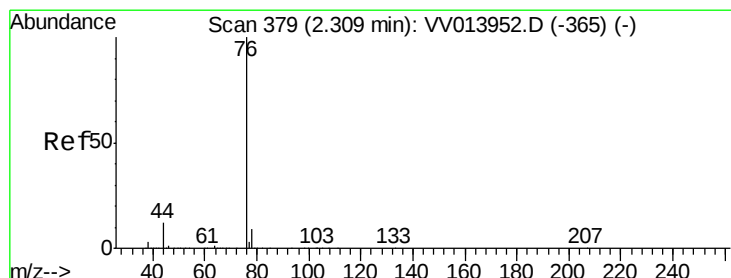
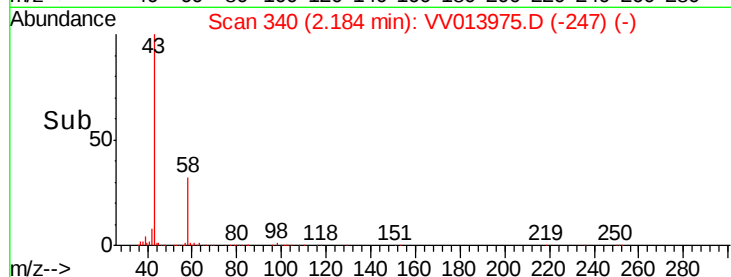
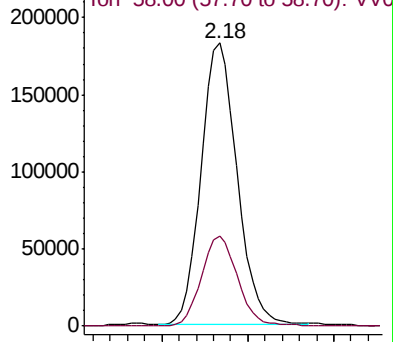
Ion Ratio Lower Upper

43 100

58 32.4 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV013975.D (-247) (-)



#14

Carbon disulfide

Concen: 42.087 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV013975.D

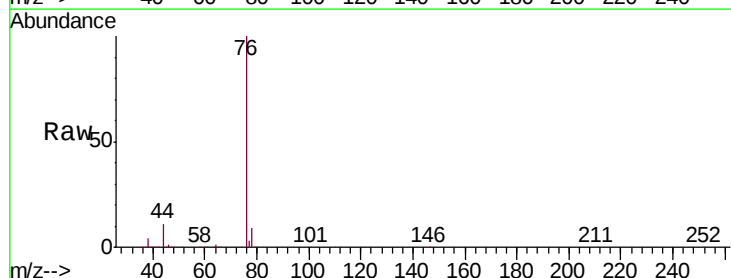
Acq: 09 Dec 2019 20:38

Tgt Ion: 76 Resp: 573506

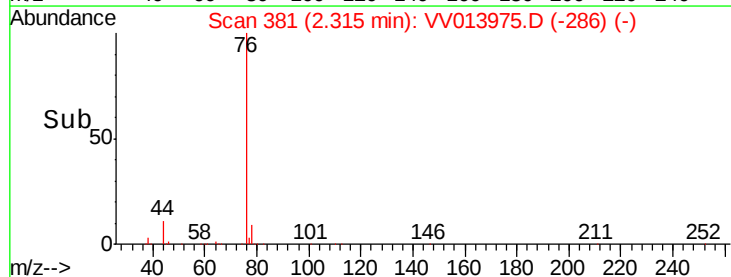
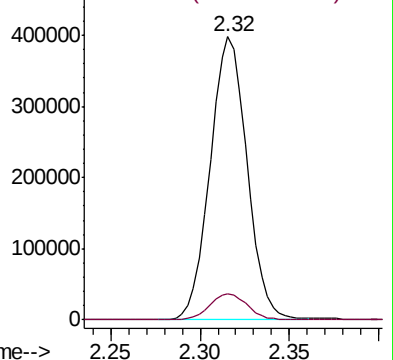
Ion Ratio Lower Upper

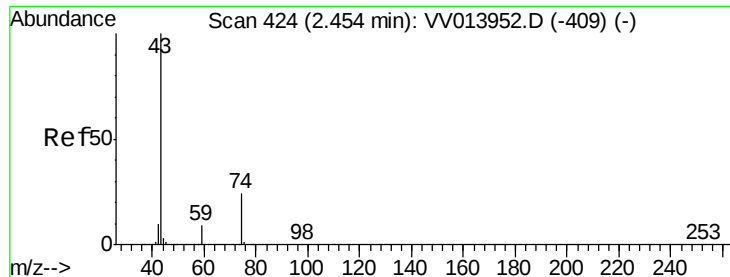
76 100

78 9.2 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV013975.D (-286) (-)

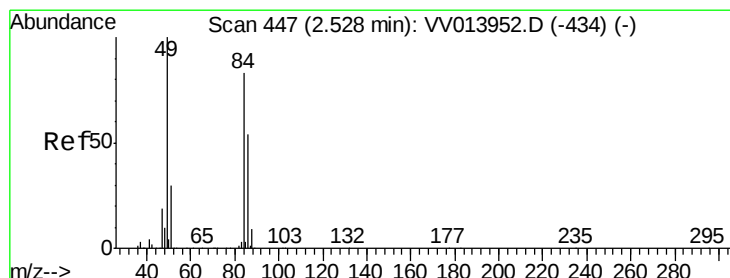
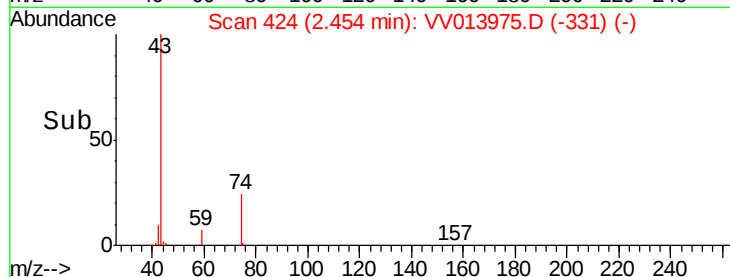
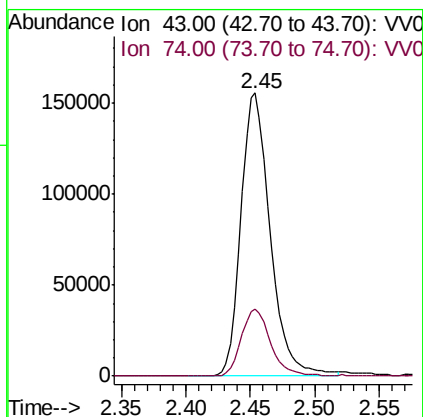
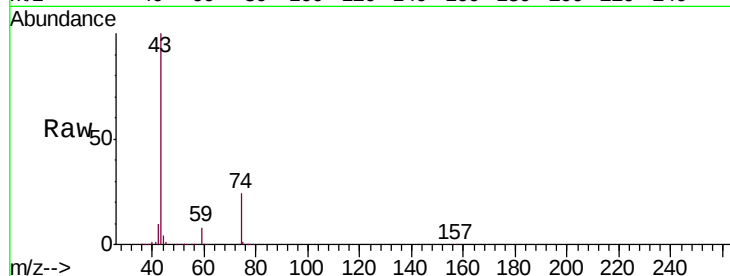




#15
Methyl Acetate
Concen: 46.820 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

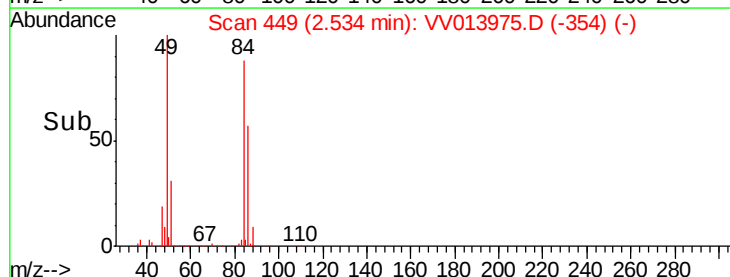
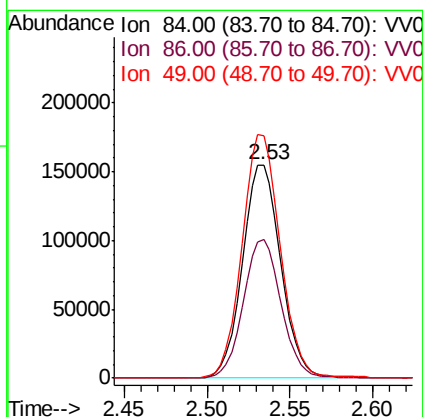
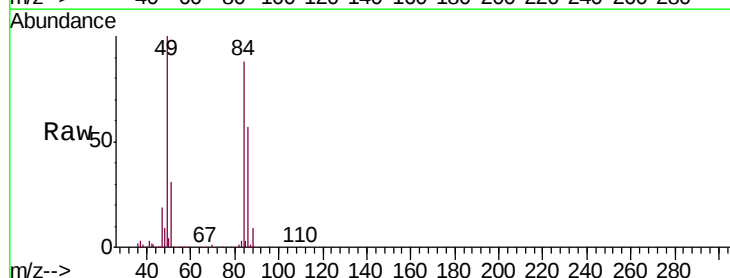
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

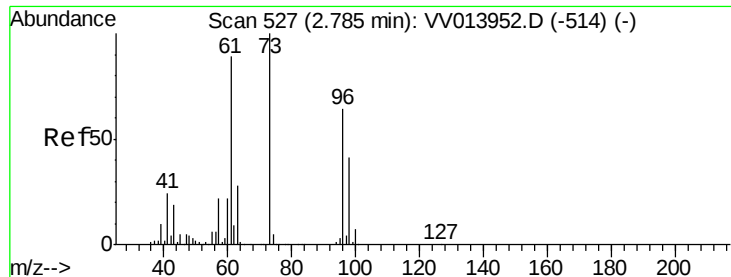
Tgt Ion: 43 Resp: 244839
Ion Ratio Lower Upper
43 100
74 23.8 19.3 28.9



#16
Methylene chloride
Concen: 46.181 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.01 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Tgt Ion: 84 Resp: 248499
Ion Ratio Lower Upper
84 100
86 64.8 43.9 81.5
49 113.5 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 44.730 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

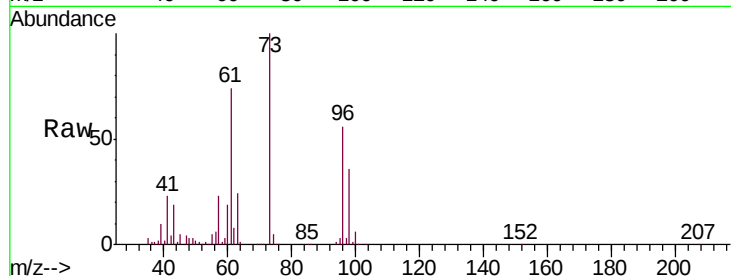
Tgt Ion: 96 Resp: 226075

Ion Ratio Lower Upper

96 100

61 133.3 92.2 171.2

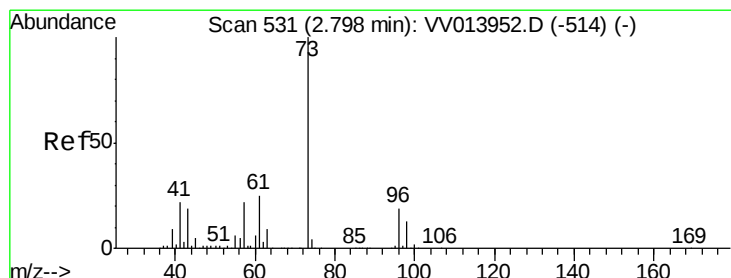
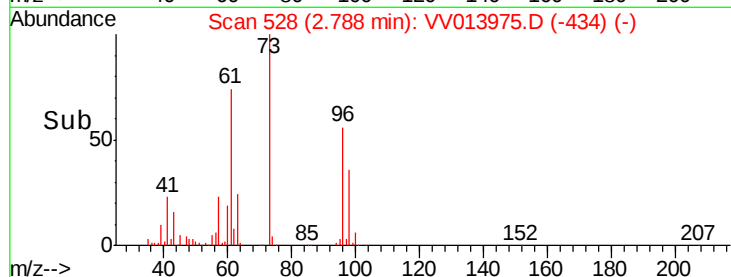
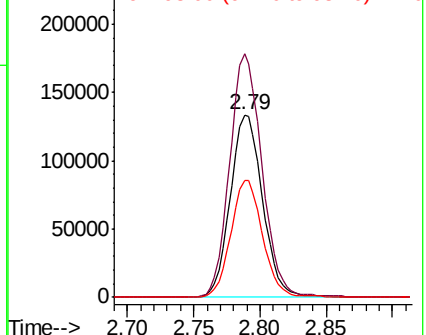
98 64.2 42.6 79.2



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 47.158 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

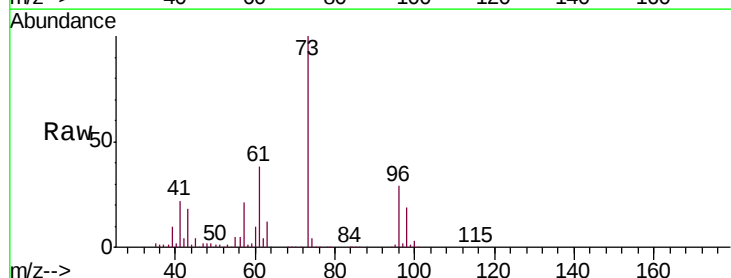
Tgt Ion: 73 Resp: 691684

Ion Ratio Lower Upper

73 100

43 18.3 15.0 22.6

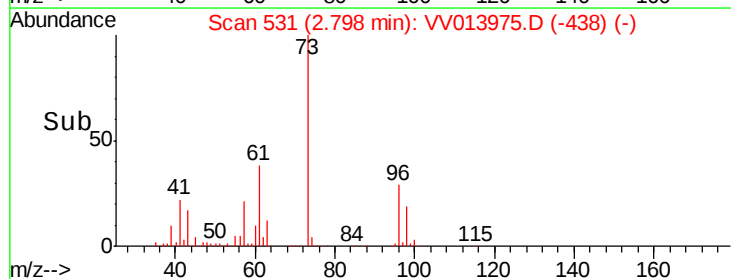
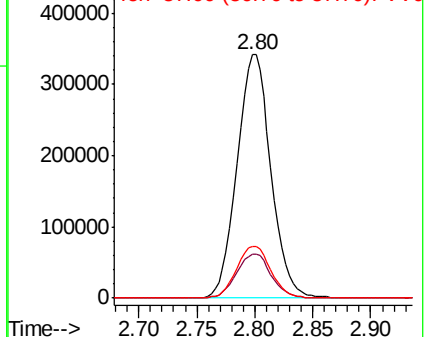
57 21.6 17.4 26.2

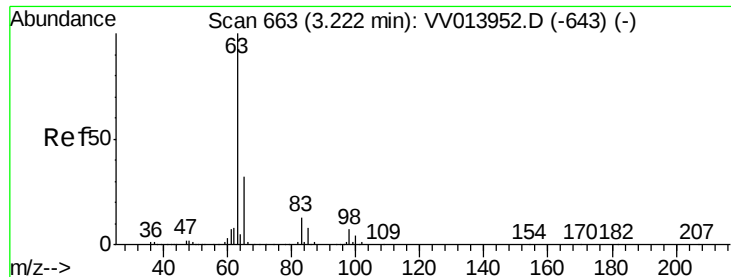


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 46.153 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

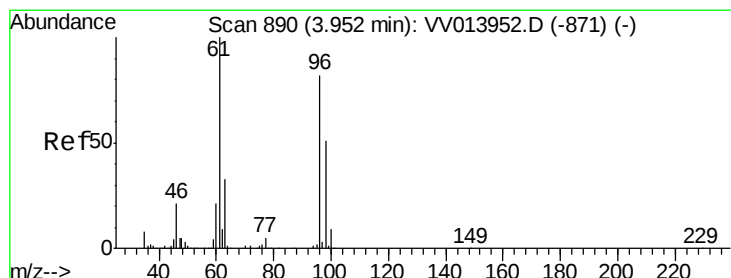
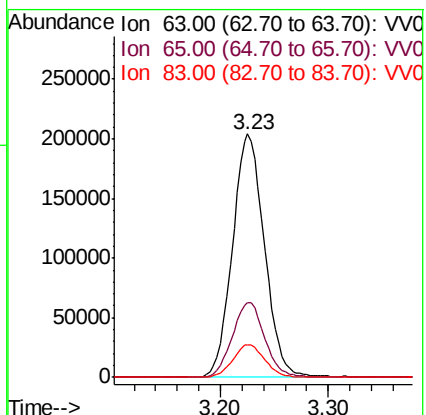
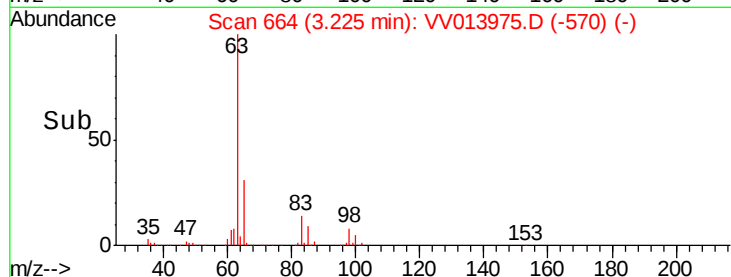
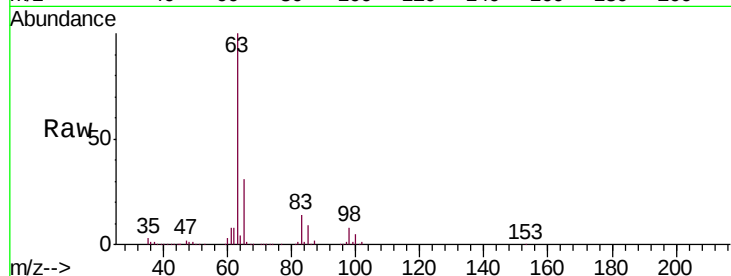
Tgt Ion: 63 Resp: 420273

Ion Ratio Lower Upper

63 100

65 30.9 21.5 39.9

83 13.5 9.7 18.1



#20

cis-1,2-Dichloroethene

Concen: 46.350 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.01 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

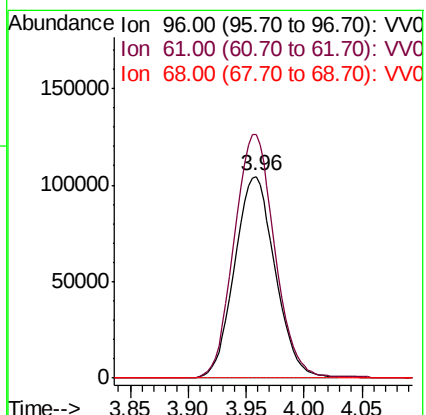
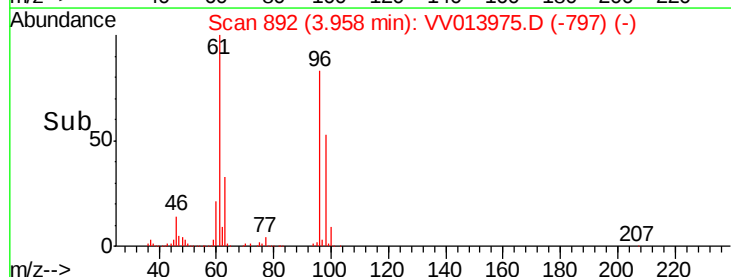
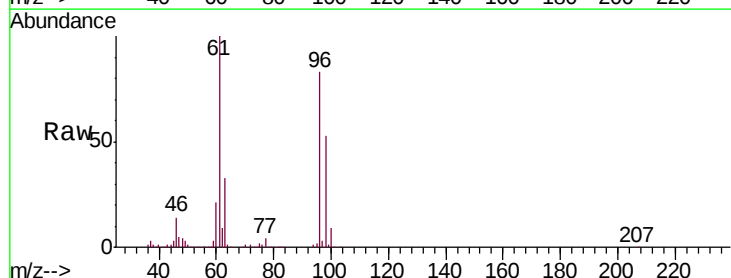
Tgt Ion: 96 Resp: 253692

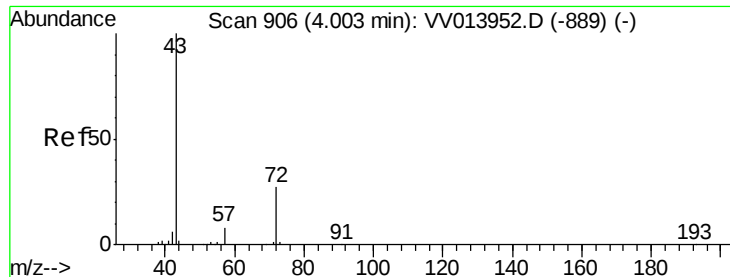
Ion Ratio Lower Upper

96 100

61 120.5 85.3 158.5

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 82.217 ug/L

RT: 4.00 min Scan# 906

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampled :

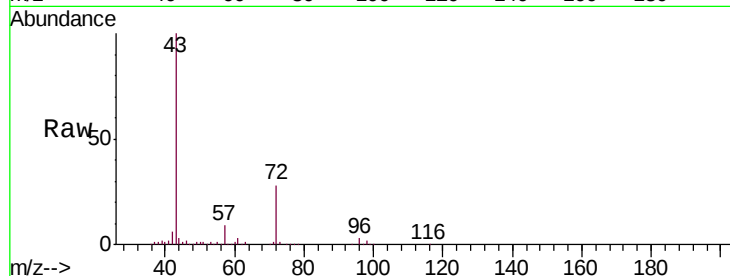
VSTD05074

Tgt Ion: 43 Resp: 334845

Ion Ratio Lower Upper

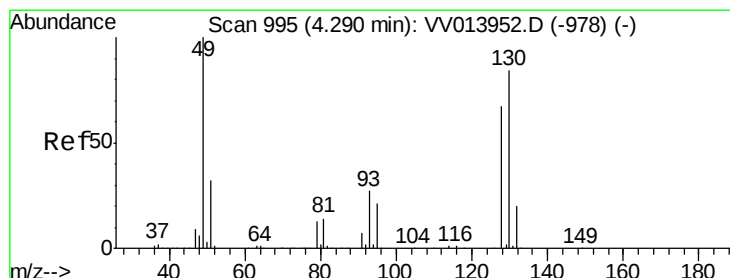
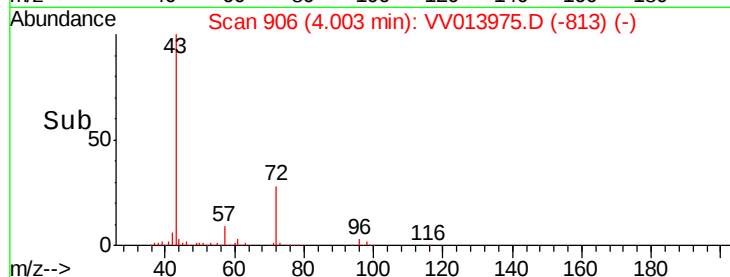
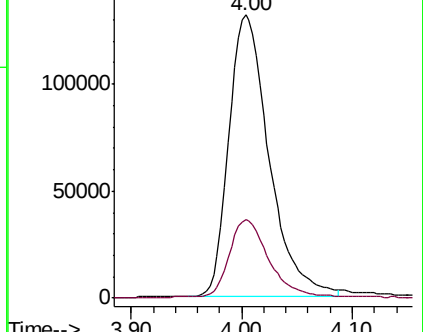
43 100

72 26.5 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV013975.D (-813) (-)

Ion 72.00 (71.70 to 72.70): VV013975.D (-813) (-)



#23

Bromochloromethane

Concen: 46.164 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Tgt Ion: 128 Resp: 139600

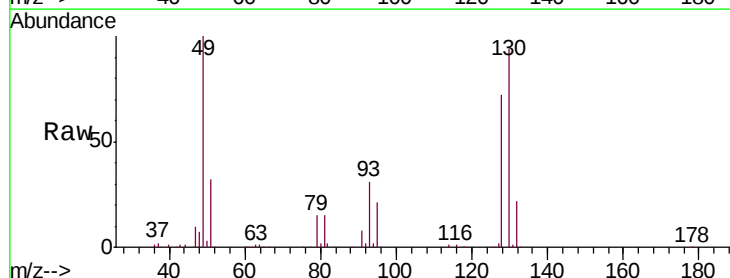
Ion Ratio Lower Upper

128 100

49 139.0 100.4 186.4

130 130.2 88.3 163.9

51 44.8 35.8 53.8

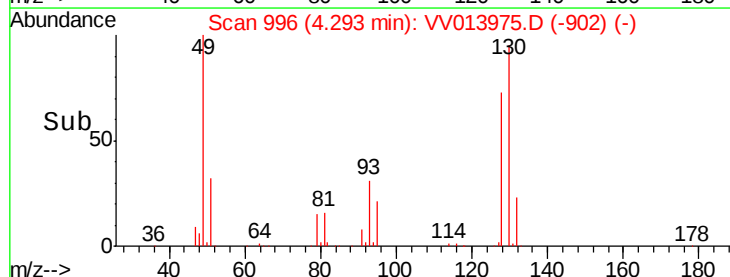
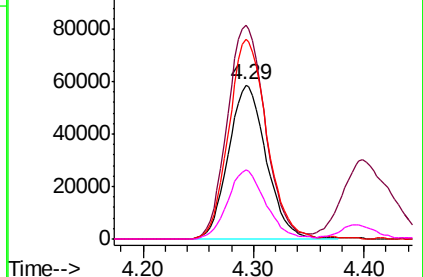


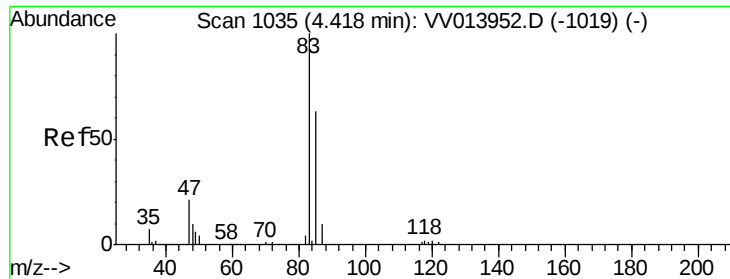
Abundance Ion 128.00 (127.70 to 128.70): VV013975.D (-902) (-)

Ion 49.00 (48.70 to 49.70): VV013975.D (-902) (-)

Ion 130.00 (129.70 to 130.70): VV013975.D (-902) (-)

Ion 51.00 (50.70 to 51.70): VV013975.D (-902) (-)

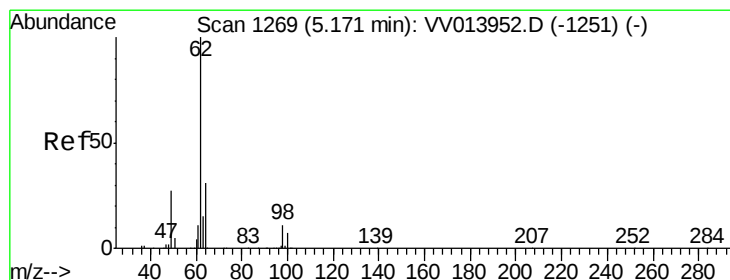
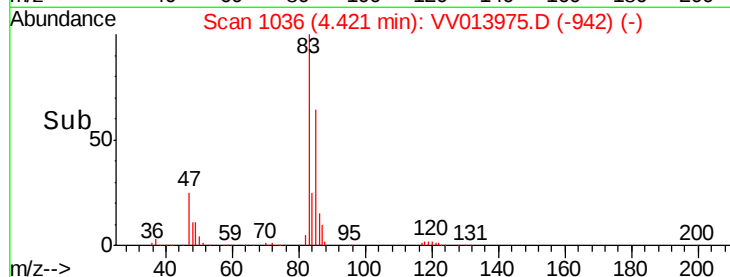
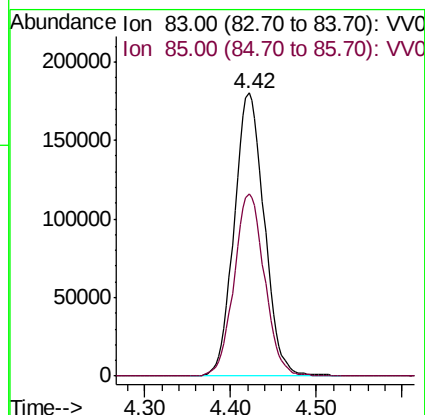
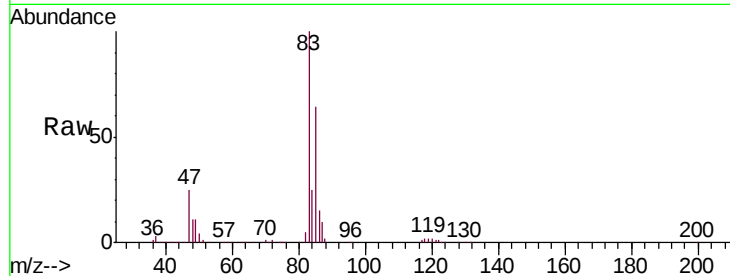




#25
Chloroform
Concen: 45.013 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

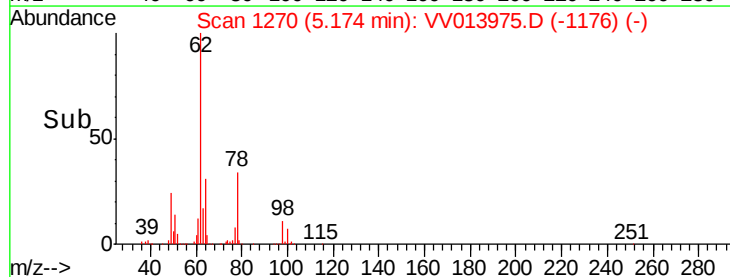
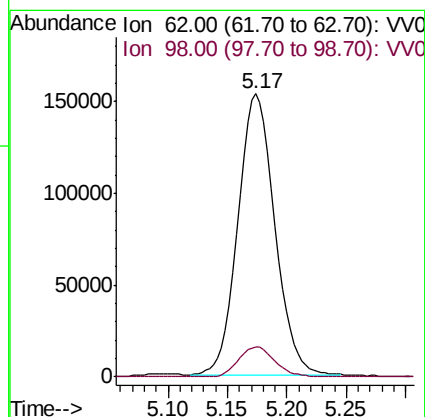
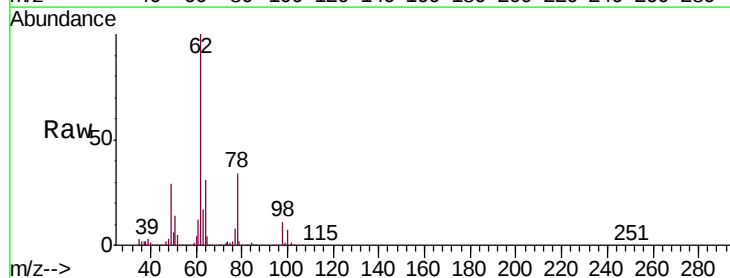
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

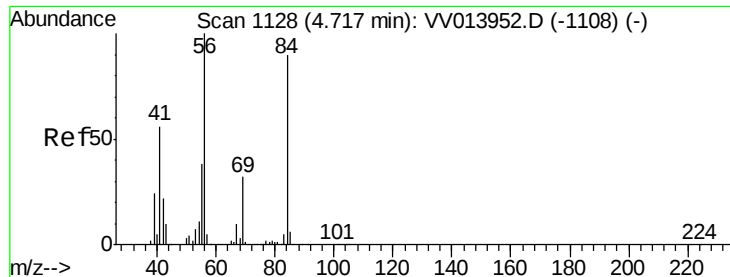
Tgt Ion: 83 Resp: 438199
Ion Ratio Lower Upper
83 100
85 64.3 45.7 84.9



#27
1,2-Dichloroethane
Concen: 46.603 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Tgt Ion: 62 Resp: 326902
Ion Ratio Lower Upper
62 100
98 10.6 8.5 12.7

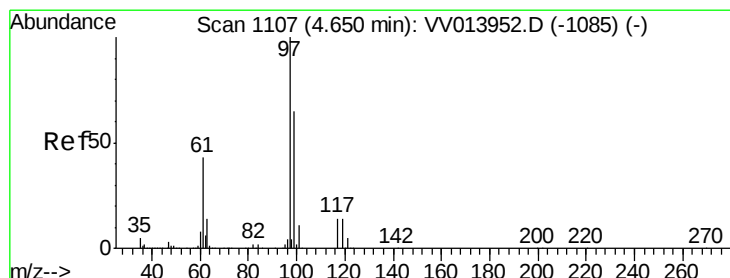
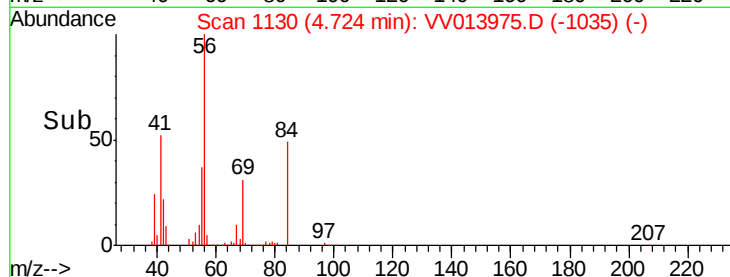
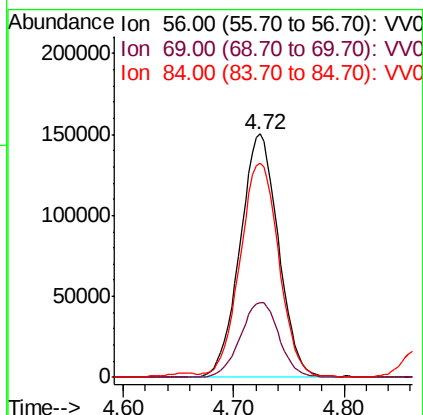
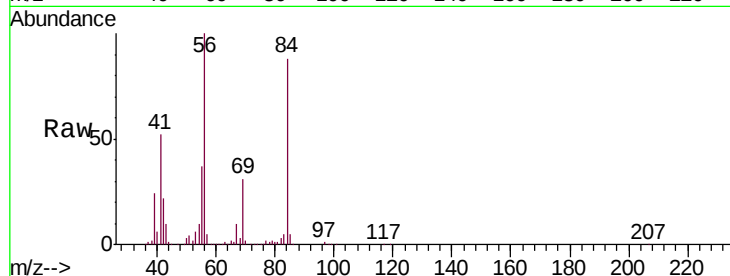




#29
Cyclohexane
Concen: 46.131 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

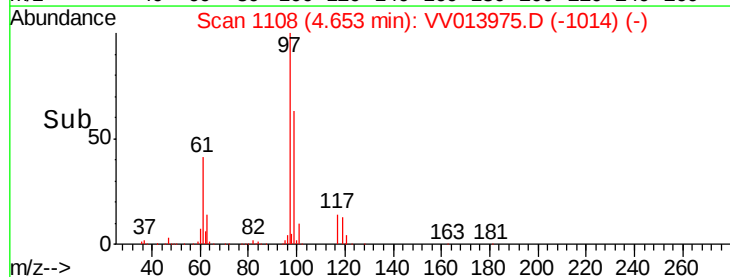
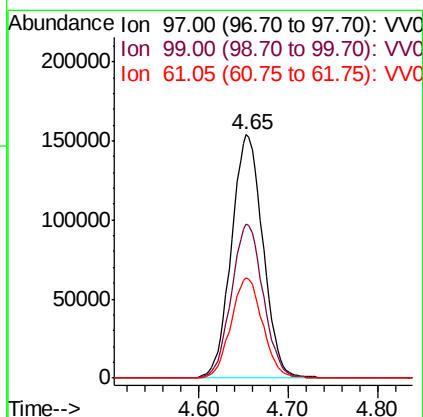
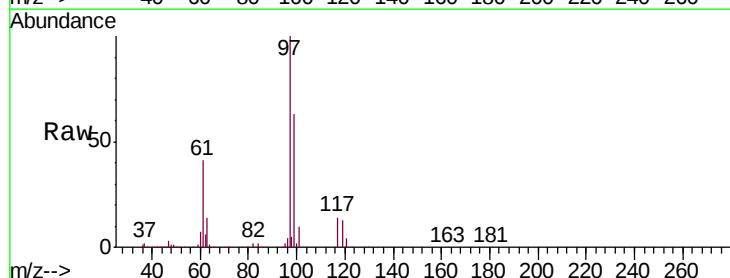
Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

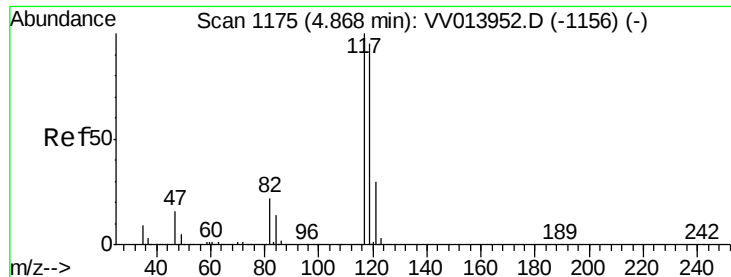
Tgt Ion: 56 Resp: 363161
Ion Ratio Lower Upper
56 100
69 31.1 24.9 37.3
84 88.2 71.0 106.4



#30
1,1,1-Trichloroethane
Concen: 46.249 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Tgt Ion: 97 Resp: 376207
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 41.3 33.2 49.8





#31

Carbon tetrachloride

Concen: 46.755 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

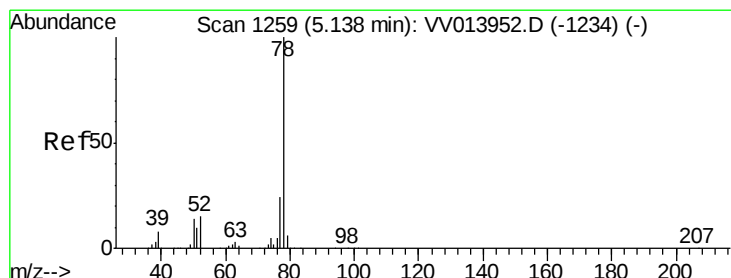
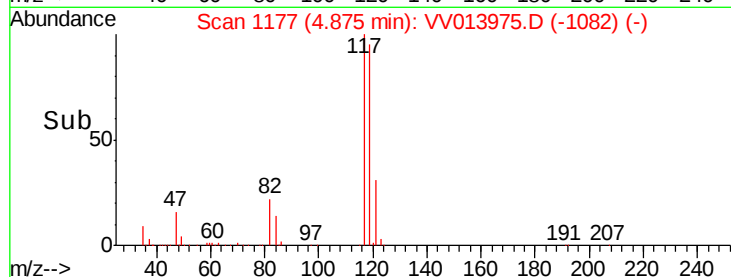
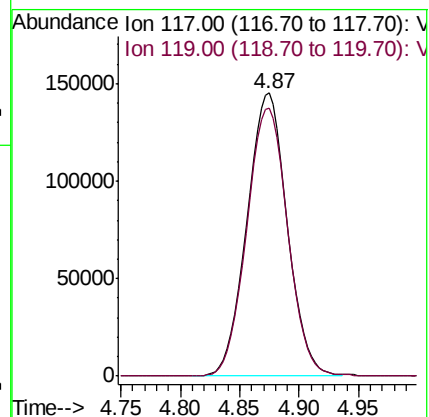
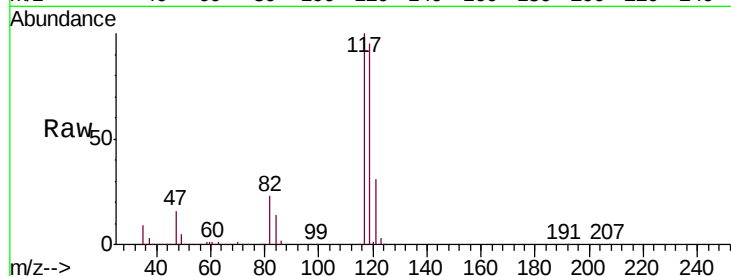
VSTD05074

Tgt Ion:117 Resp: 339740

Ion Ratio Lower Upper

117 100

119 96.7 77.9 116.9



#33

Benzene

Concen: 47.556 ug/L

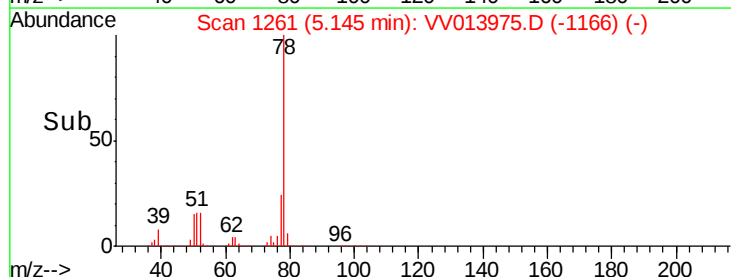
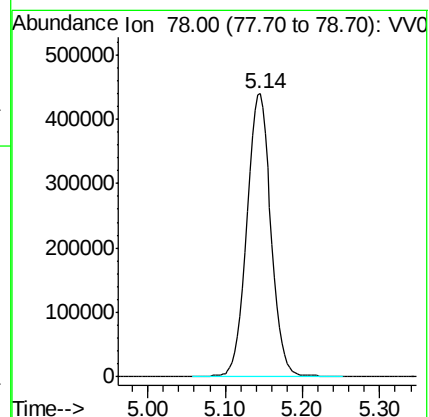
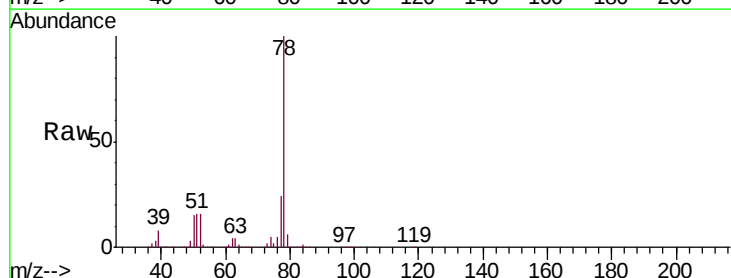
RT: 5.14 min Scan# 1261

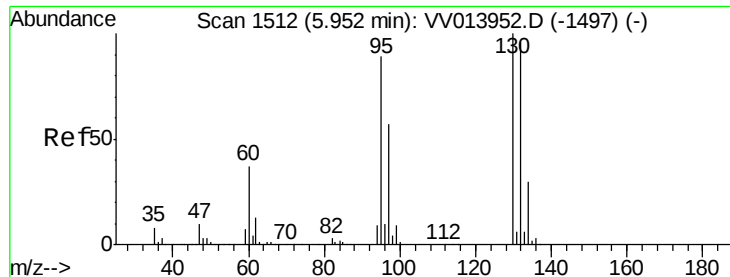
Delta R.T. 0.01 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Tgt Ion: 78 Resp: 954261





#34

Trichloroethene

Concen: 47.047 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

Tgt Ion: 95 Resp: 253201

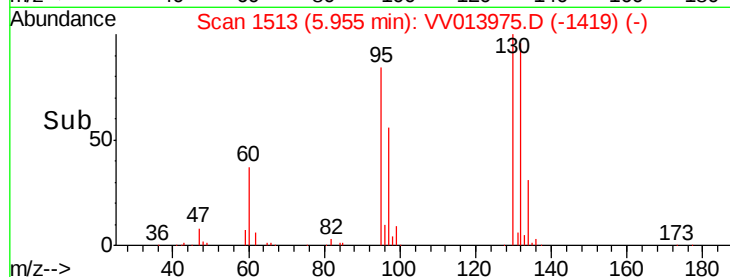
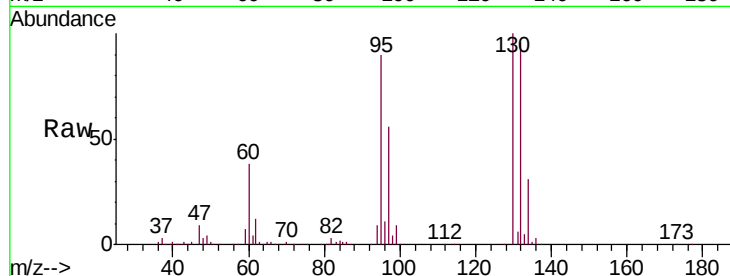
Ion Ratio Lower Upper

95 100

97 62.3 45.4 84.4

132 106.1 73.7 136.9

130 110.6 77.1 143.1

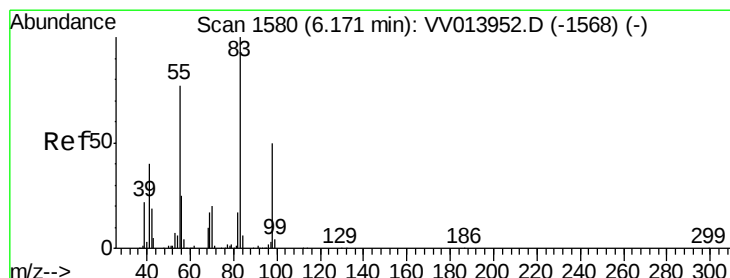
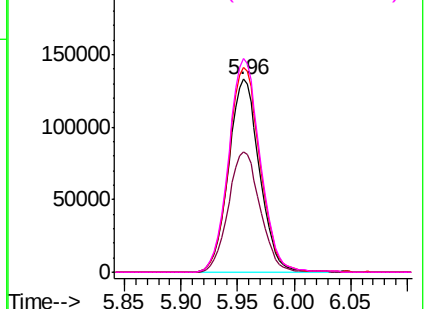


Abundance Ion 95.00 (94.70 to 95.70): VV013975.D (-1419) (-)

Ion 97.00 (96.70 to 97.70): VV013975.D (-1419) (-)

Ion 132.00 (131.70 to 132.70): VV013975.D (-1419) (-)

Ion 130.00 (129.70 to 130.70): VV013975.D (-1419) (-)



#35

Methylcyclohexane

Concen: 46.669 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

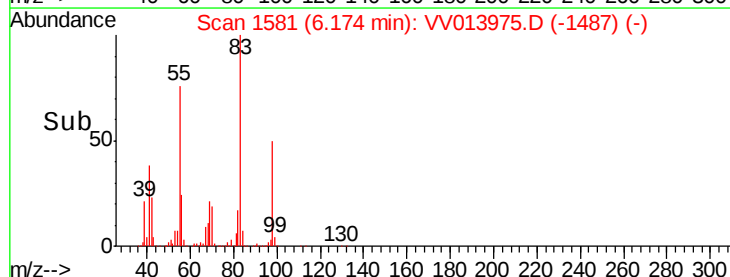
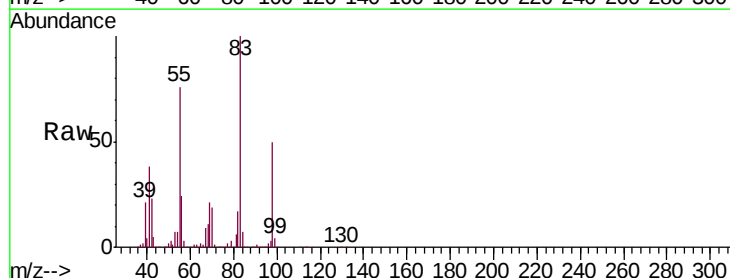
Tgt Ion: 83 Resp: 376856

Ion Ratio Lower Upper

83 100

55 75.2 61.0 91.4

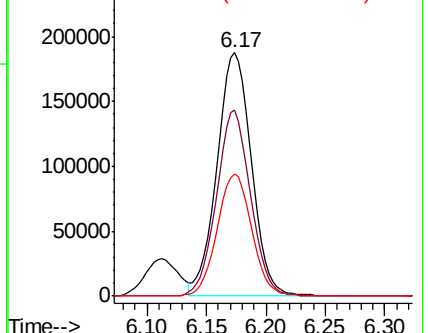
98 50.5 39.6 59.4

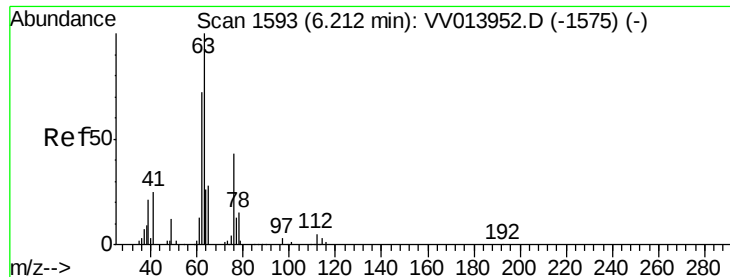


Abundance Ion 83.00 (82.70 to 83.70): VV013975.D (-1487) (-)

Ion 55.00 (54.70 to 55.70): VV013975.D (-1487) (-)

Ion 98.00 (97.70 to 98.70): VV013975.D (-1487) (-)





#37

1,2-Dichloropropane

Concen: 50.192 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

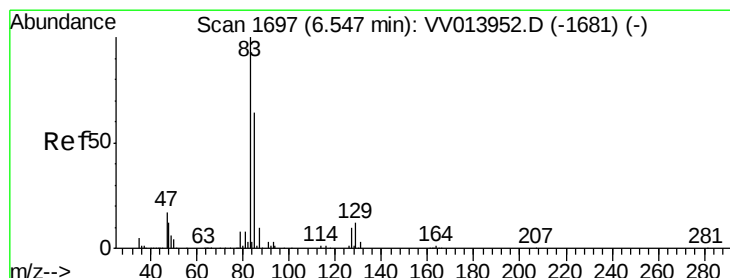
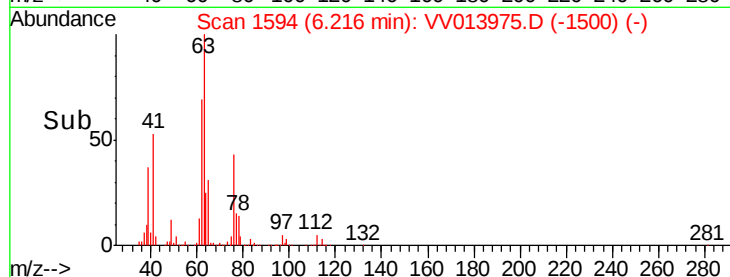
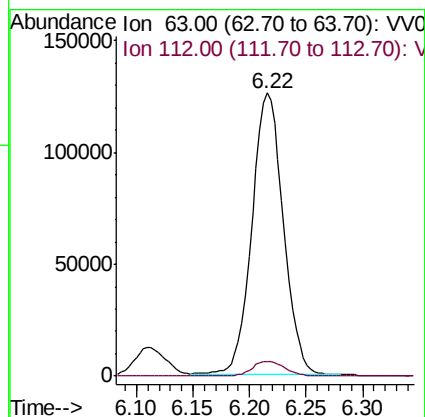
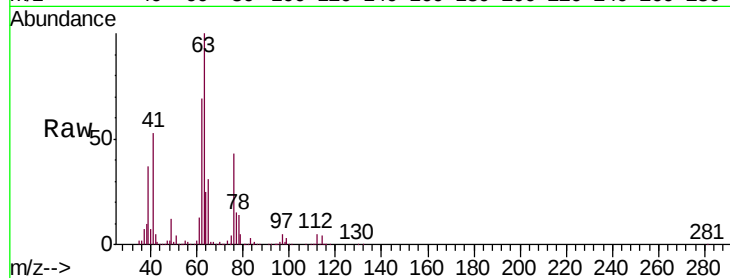
VSTD05074

Tgt Ion: 63 Resp: 243763

Ion Ratio Lower Upper

63 100

112 5.6 4.2 6.2



#38

Bromodichloromethane

Concen: 47.450 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

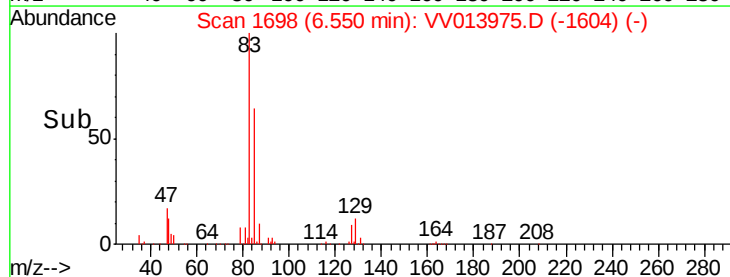
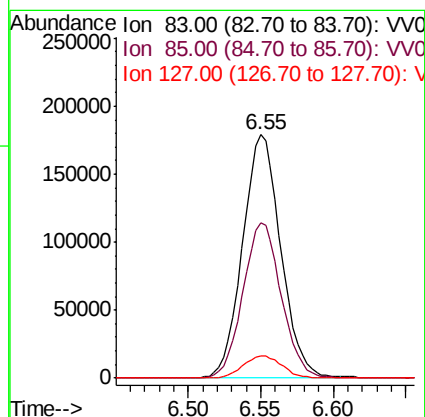
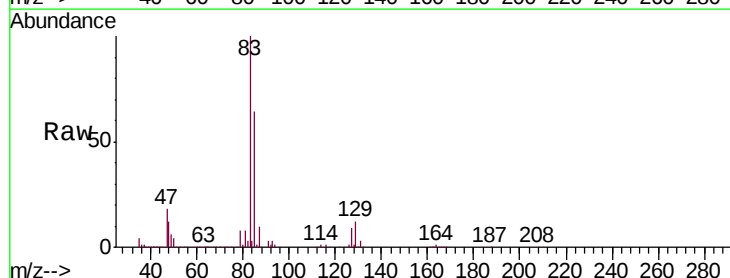
Tgt Ion: 83 Resp: 326809

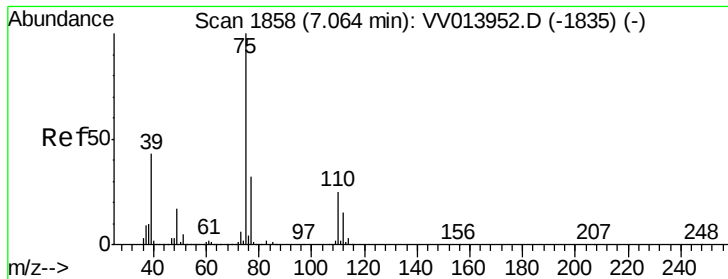
Ion Ratio Lower Upper

83 100

85 64.0 44.8 83.2

127 9.2 7.7 11.5





#39

cis-1,3-Dichloropropene

Concen: 48.785 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

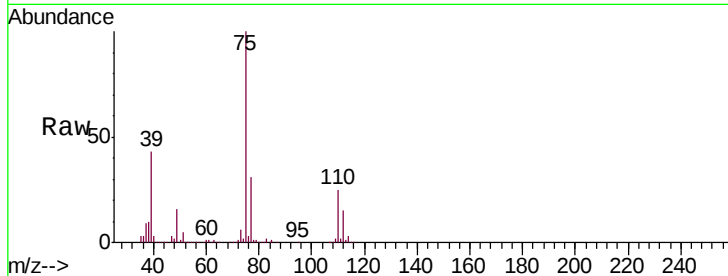
VSTD05074

Tgt Ion: 75 Resp: 372987

Ion Ratio Lower Upper

75 100

77 31.0 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV013975.D (-1835) (-)

Ion 77.00 (76.70 to 77.70): VV013975.D (-1835) (-)

7.07

200000

150000

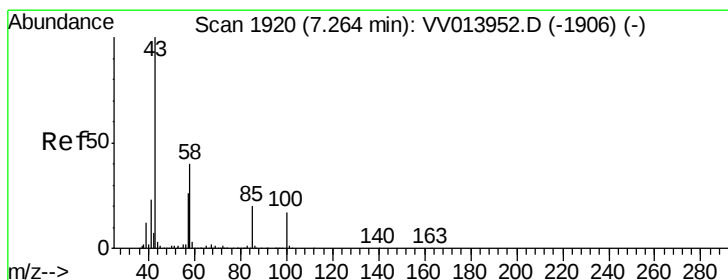
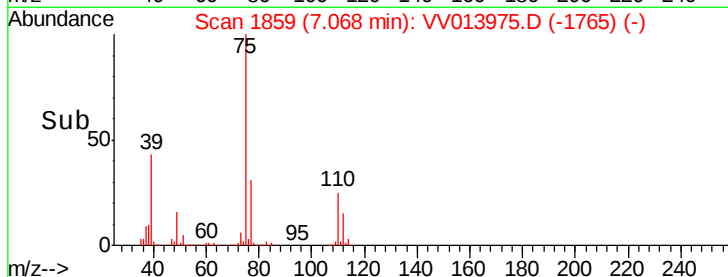
100000

50000

0

7.00 7.10

Time-->



#40

4-Methyl-2-pentanone

Concen: 100.109 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

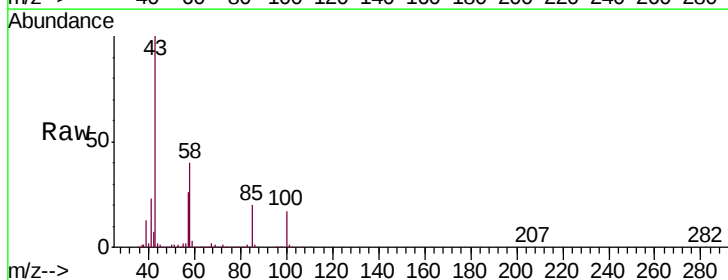
Tgt Ion: 43 Resp: 632213

Ion Ratio Lower Upper

43 100

58 40.3 31.9 47.9

100 17.7 13.7 20.5



Abundance Ion 43.00 (42.70 to 43.70): VV013975.D (-1827) (-)

Ion 58.00 (57.70 to 58.70): VV013975.D (-1827) (-)

Ion 100.00 (99.70 to 100.70): VV013975.D (-1827) (-)

7.26

500000

400000

300000

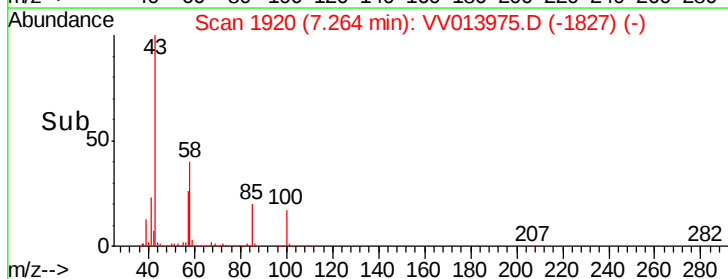
200000

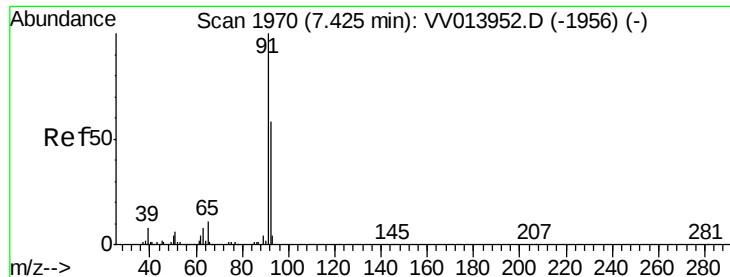
100000

0

7.20 7.25 7.30 7.35

Time-->





#42

Toluene

Concen: 49.531 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

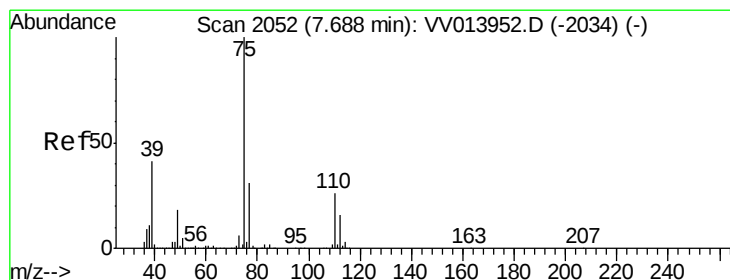
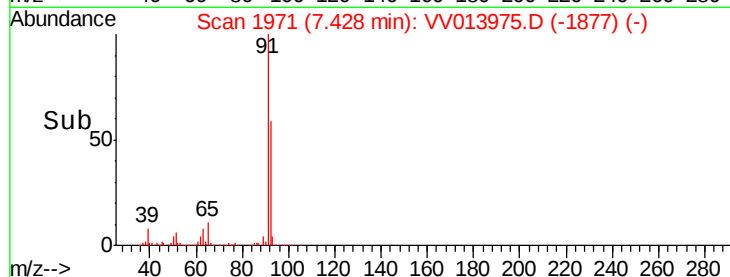
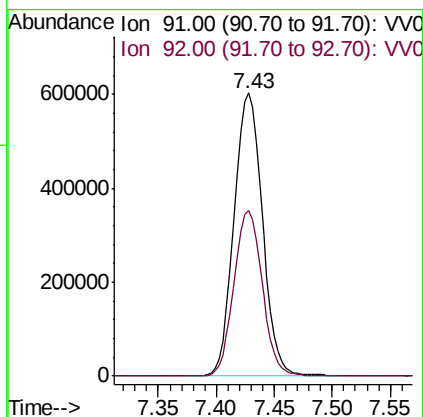
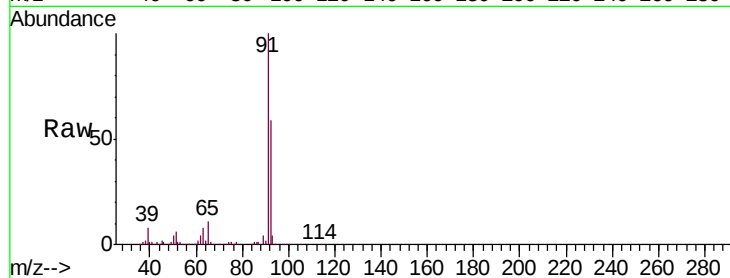
VSTD05074

Tgt Ion: 91 Resp: 1025471

Ion Ratio Lower Upper

91 100

92 58.7 41.4 77.0



#44

trans-1,3-Dichloropropene

Concen: 46.082 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV013975.D

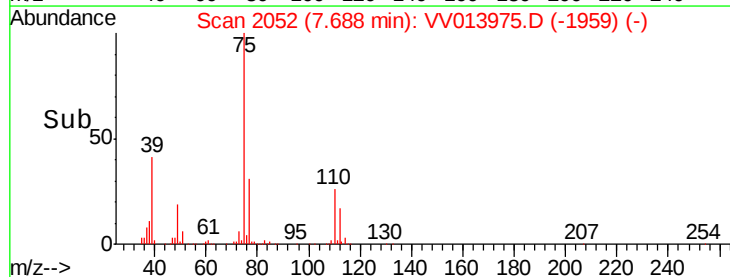
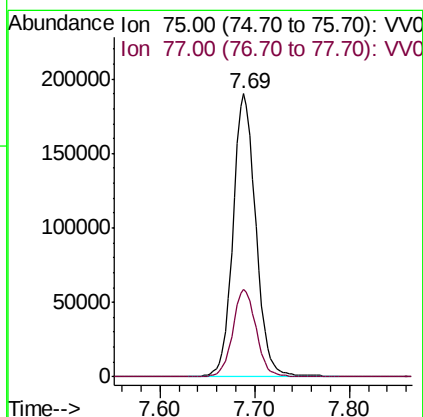
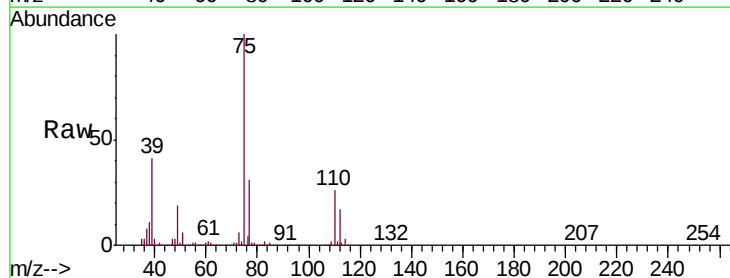
Acq: 09 Dec 2019 20:38

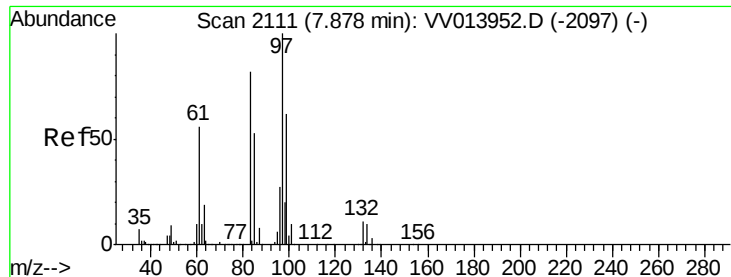
Tgt Ion: 75 Resp: 319039

Ion Ratio Lower Upper

75 100

77 30.8 22.9 42.5

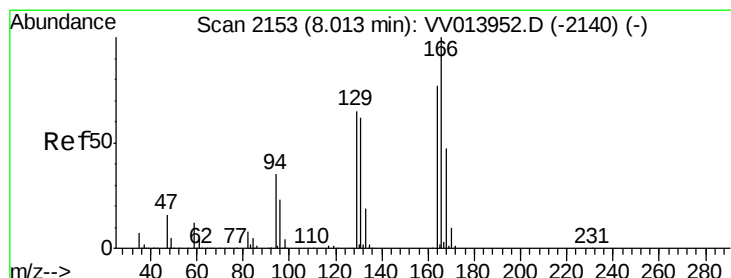
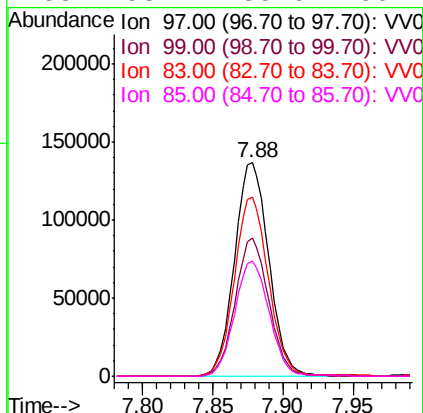
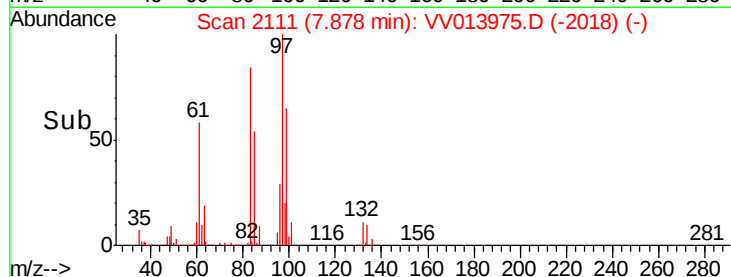
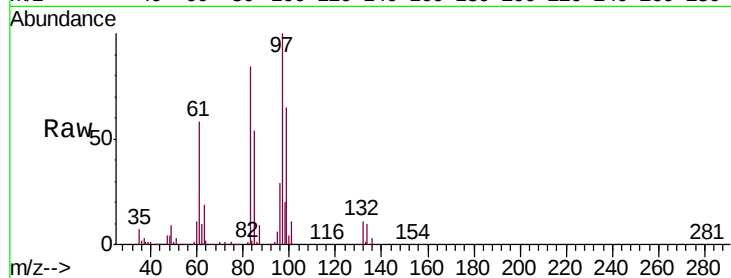




#45
 1,1,2-Trichloroethane
 Concen: 48.451 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV013975.D
 Acq: 09 Dec 2019 20:38

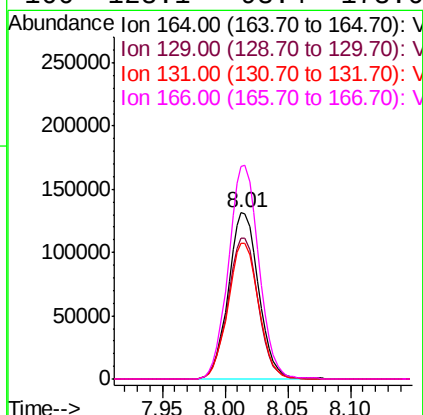
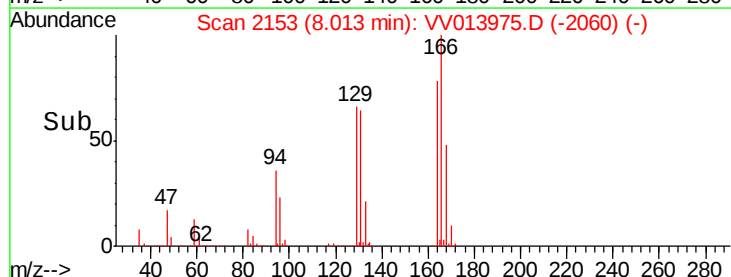
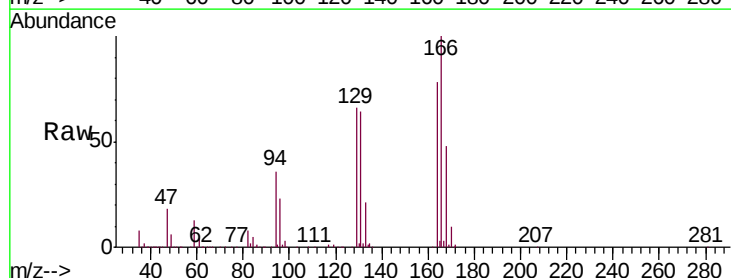
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05074

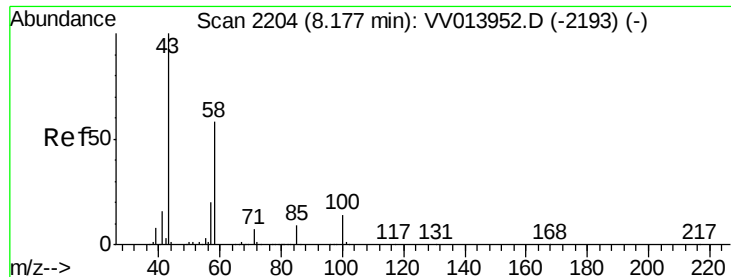
Tgt Ion:	97	Resp:	233566
Ion	Ratio	Lower	Upper
97	100		
99	64.7	43.0	80.0
83	83.9	57.5	106.9
85	53.7	35.6	66.2



#46
 Tetrachloroethene
 Concen: 45.273 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VV013975.D
 Acq: 09 Dec 2019 20:38

Tgt Ion:	164	Resp:	219869
Ion	Ratio	Lower	Upper
164	100		
129	85.1	61.7	114.7
131	81.9	58.4	108.6
166	128.1	93.4	173.6

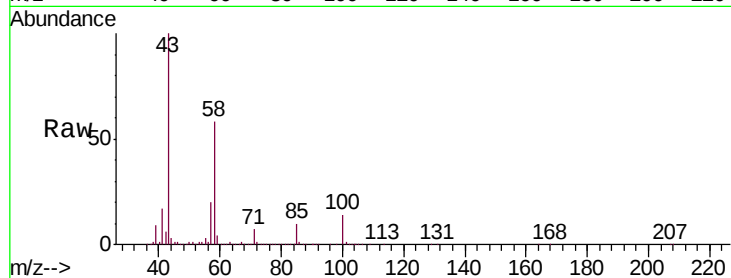




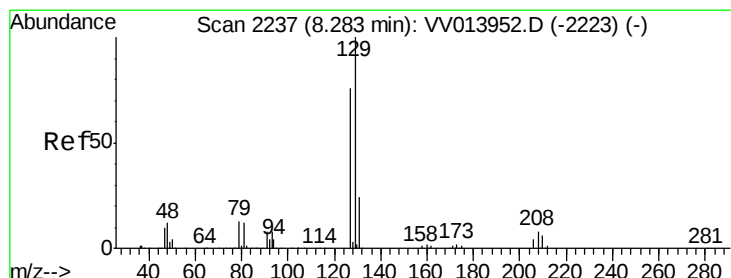
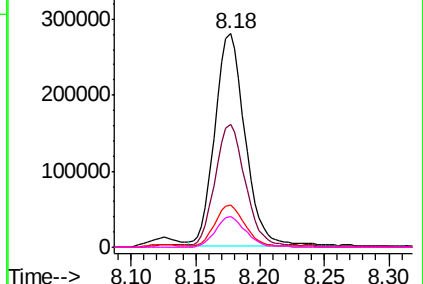
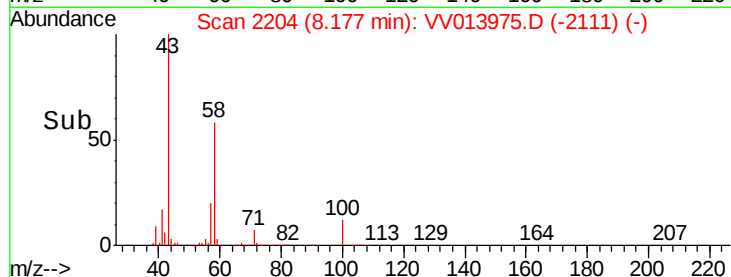
#48
2-Hexanone
Concen: 89.952 ug/L
RT: 8.18 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Instrument :
MSVOA_V
ClientSampleId :
VSTD05074

Tgt Ion:	43	Resp:	454426
Ion	Ratio	Lower	Upper
43	100		
58	56.8	48.4	72.6
57	19.7	16.6	24.8
100	14.6	11.9	17.9

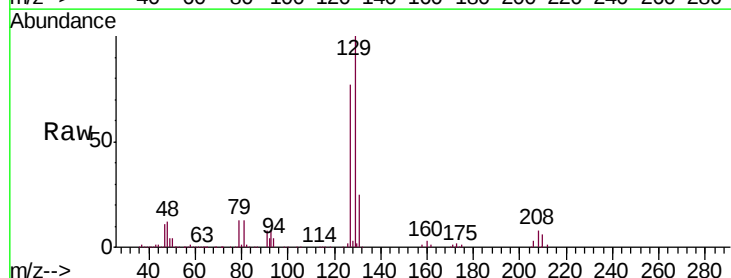


Abundance Ion 43.00 (42.70 to 43.70): VV013975.D (-2111) (-)
Ion 58.00 (57.70 to 58.70): VV013975.D (-2111) (-)
Ion 57.00 (56.70 to 57.70): VV013975.D (-2111) (-)
Ion 100.00 (99.70 to 100.70): VV013975.D (-2111) (-)

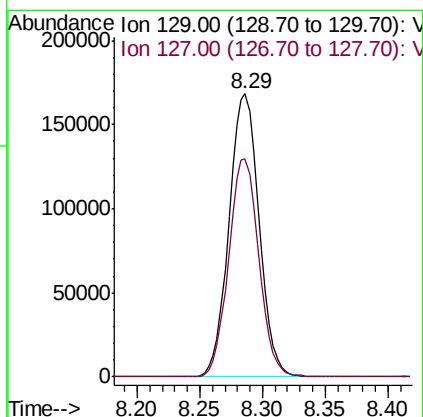
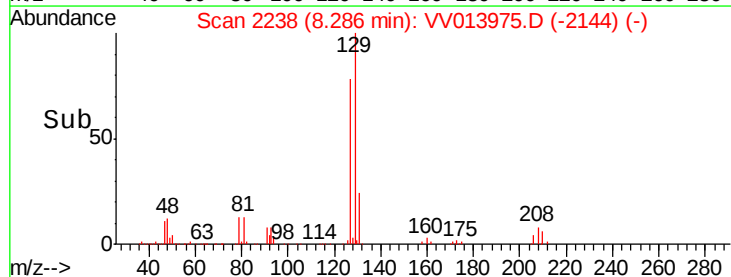


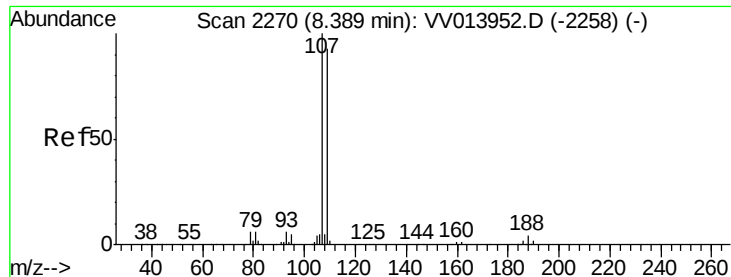
#49
Dibromochloromethane
Concen: 47.579 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013975.D
Acq: 09 Dec 2019 20:38

Tgt Ion:	129	Resp:	280370
Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VV013975.D (-2144) (-)
Ion 127.00 (126.70 to 127.70): VV013975.D (-2144) (-)

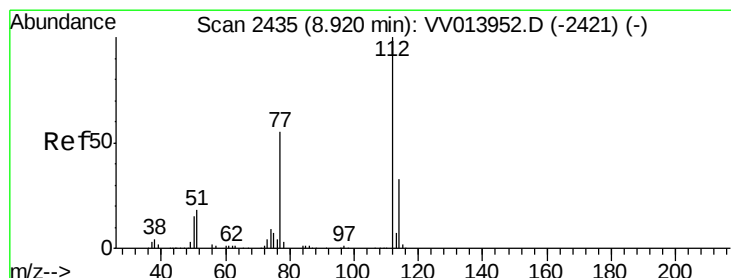
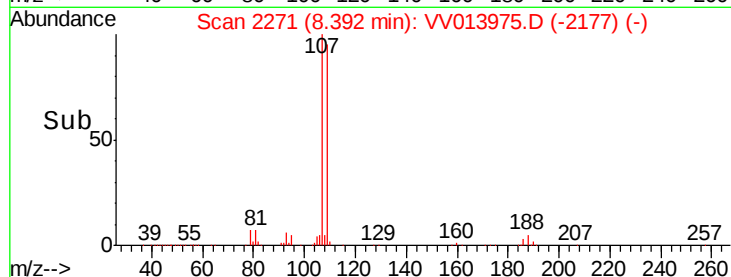
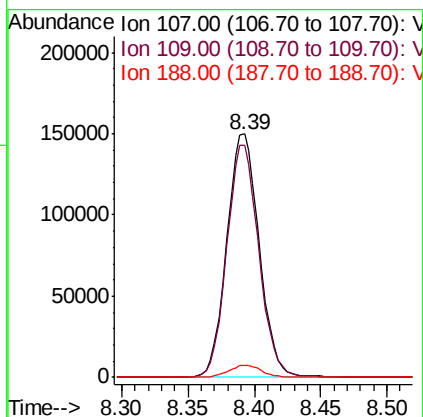
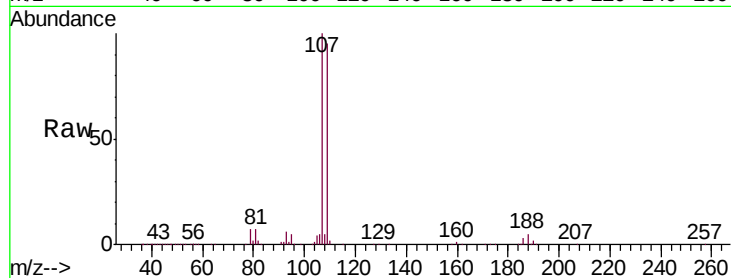




#50
 1,2-Dibromoethane
 Concen: 47.837 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VV013975.D
 Acq: 09 Dec 2019 20:38

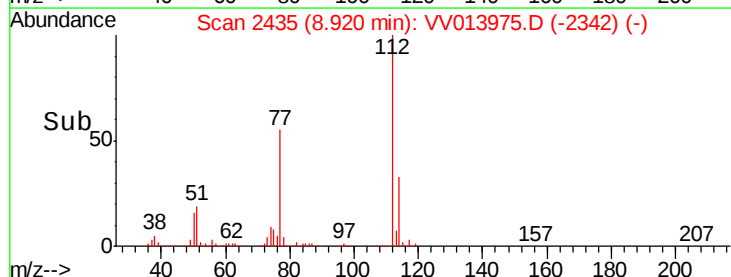
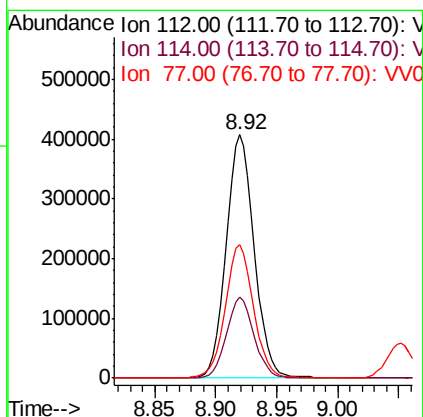
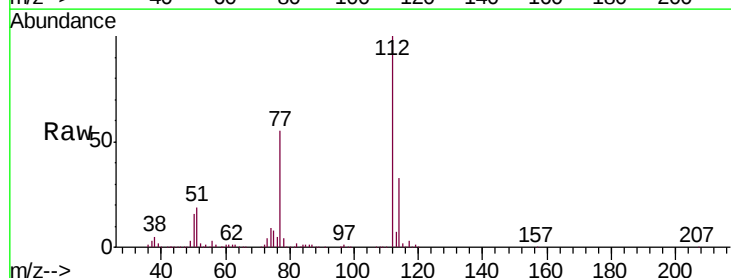
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05074

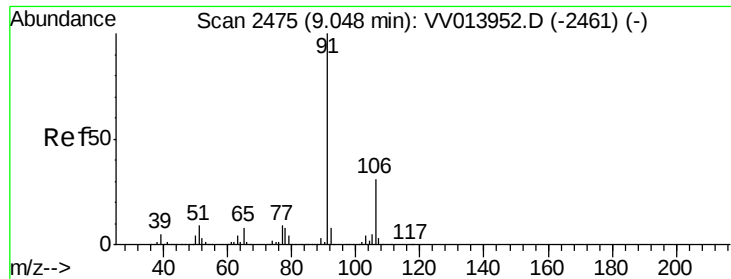
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.3	65.9	122.5
188	5.2	3.6	5.4



#51
 Chlorobenzene
 Concen: 45.943 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV013975.D
 Acq: 09 Dec 2019 20:38

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.1	23.2	43.2
77	54.8	45.0	67.4





#52

Ethylbenzene

Concen: 46.770 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

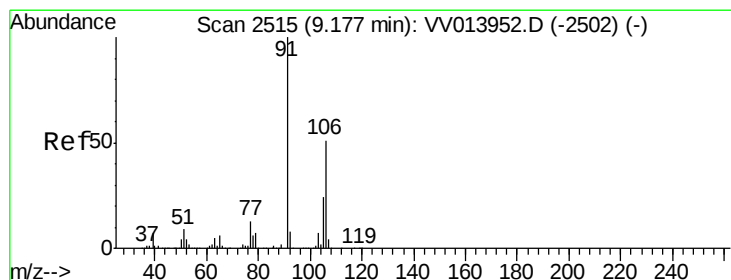
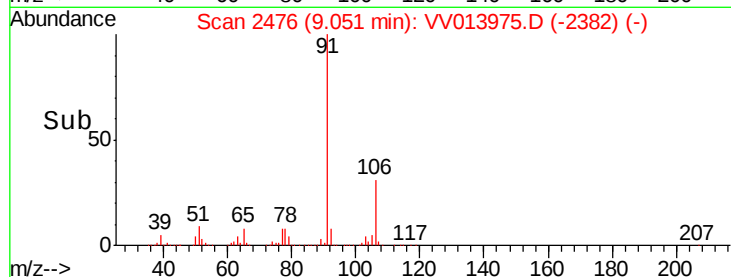
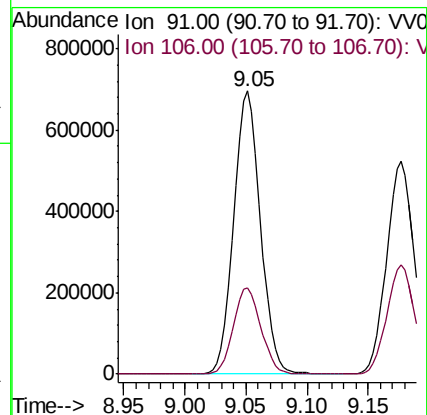
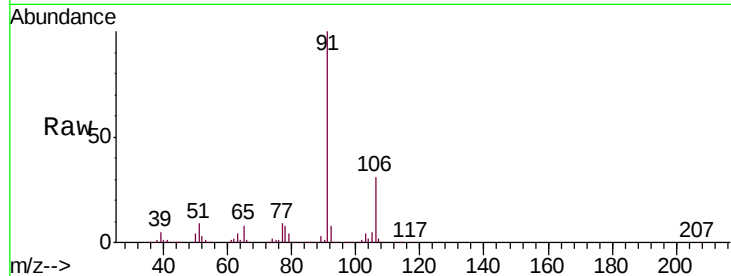
VSTD05074

Tgt Ion: 91 Resp: 1067468

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.4



#53

m,p-Xylene

Concen: 48.249 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013975.D

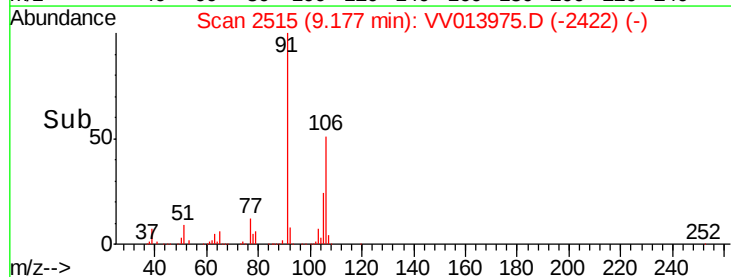
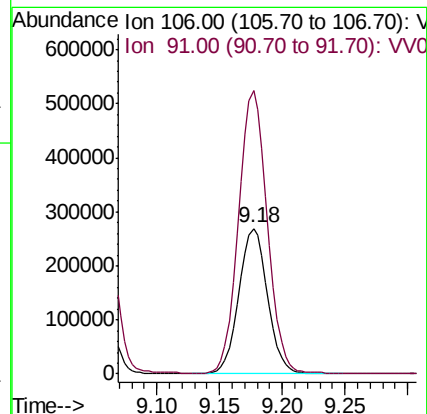
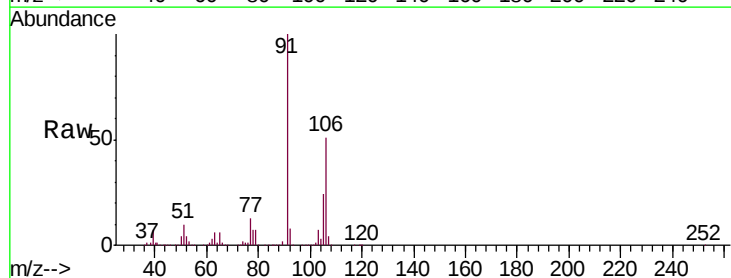
Acq: 09 Dec 2019 20:38

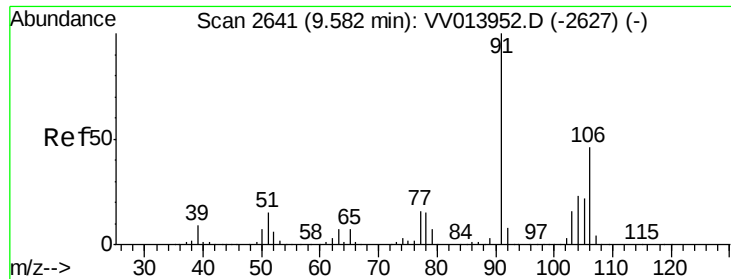
Tgt Ion: 106 Resp: 425854

Ion Ratio Lower Upper

106 100

91 194.5 139.4 259.0





#54

o-xylene

Concen: 48.038 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

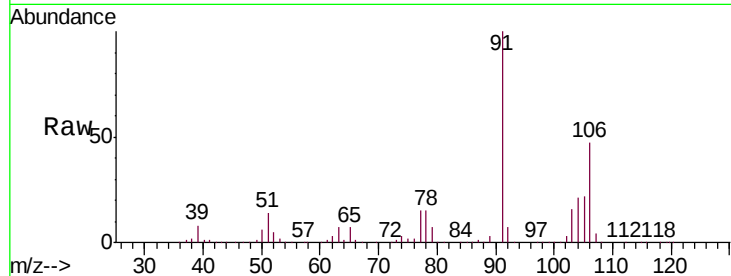
VSTD05074

Tgt Ion:106 Resp: 414560

Ion Ratio Lower Upper

106 100

91 211.1 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

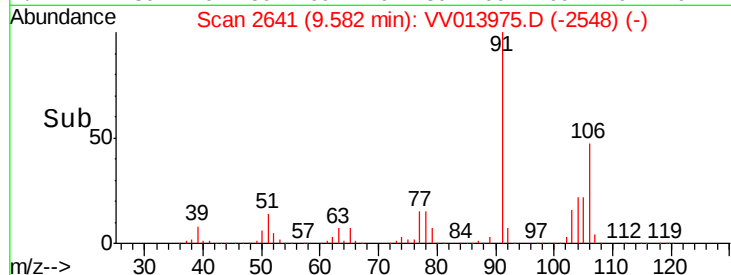
600000

400000

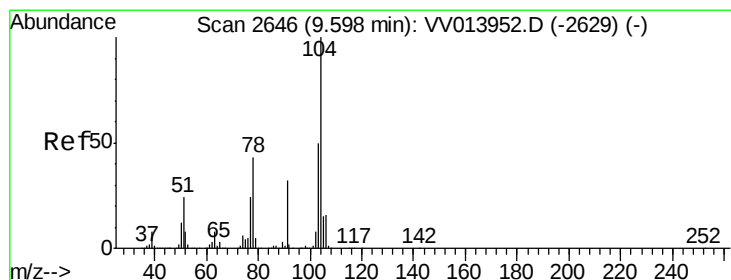
200000

0

9.50 9.55 9.60 9.65



Time-->



#55

Styrene

Concen: 47.529 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV013975.D

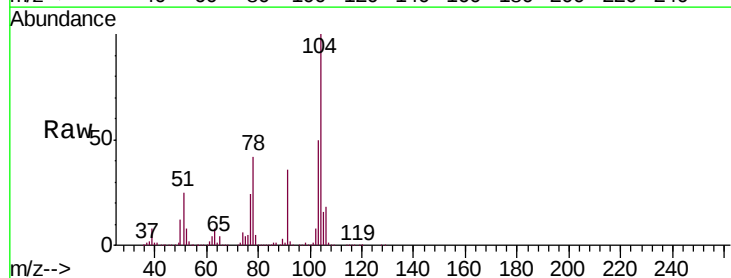
Acq: 09 Dec 2019 20:38

Tgt Ion:104 Resp: 707659

Ion Ratio Lower Upper

104 100

78 42.3 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

500000

400000

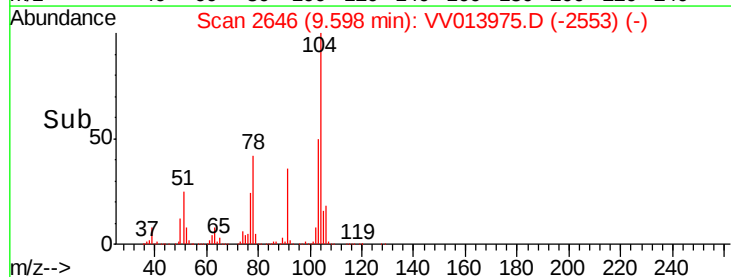
300000

200000

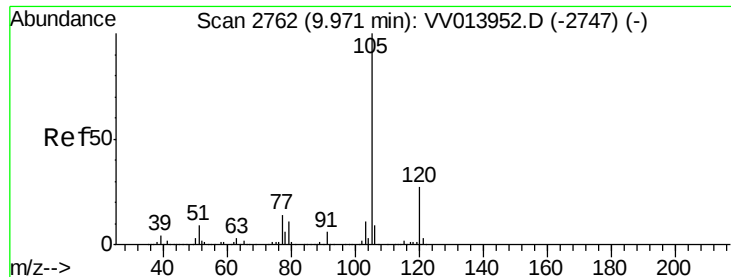
100000

0

9.50 9.55 9.60 9.65



Time-->



#56

Isopropylbenzene

Concen: 46.922 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

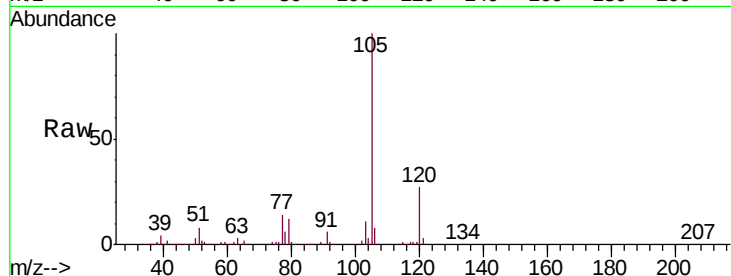
Tgt Ion: 105 Resp: 1088421

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.2

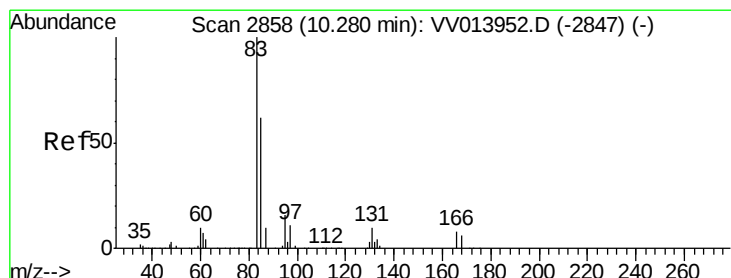
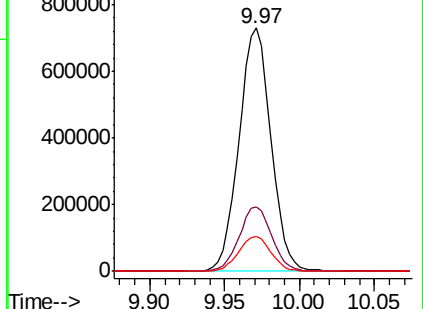
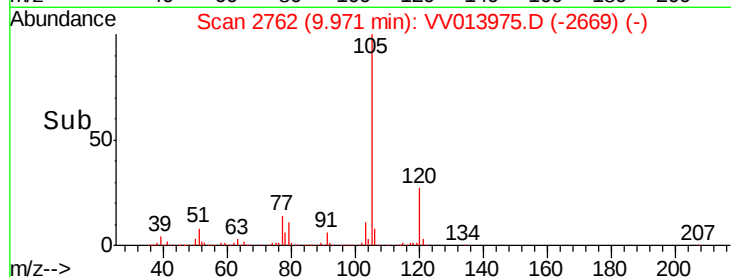
77 14.7 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 44.882 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

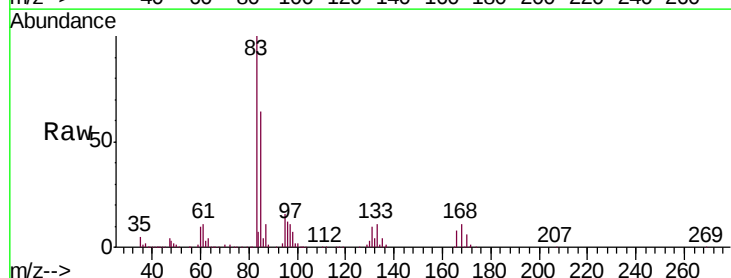
Tgt Ion: 83 Resp: 352228

Ion Ratio Lower Upper

83 100

85 64.4 44.1 81.9

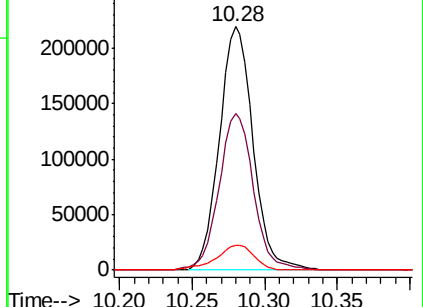
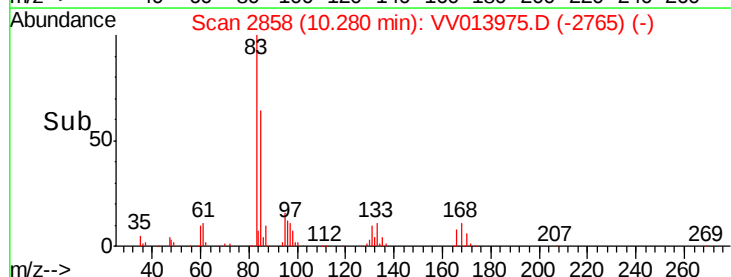
131 10.3 8.8 13.2

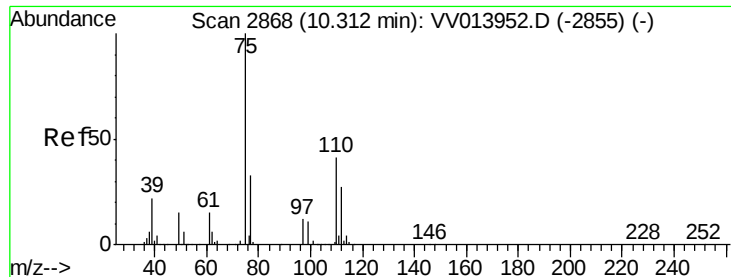


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.543 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

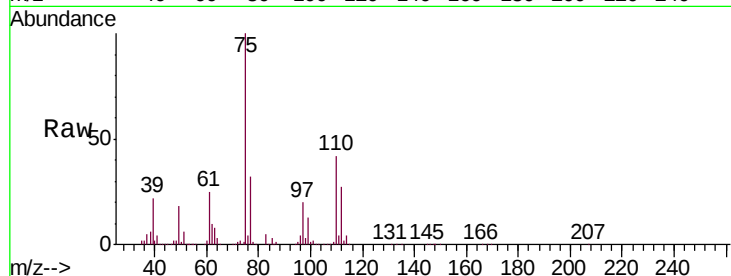
VSTD05074

Tgt Ion: 75 Resp: 299318

Ion Ratio Lower Upper

75 100

77 32.0 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV013975.D (-2246) (-)

Ion 77.00 (76.70 to 77.70): VV013975.D (-2246) (-)

10.31

200000

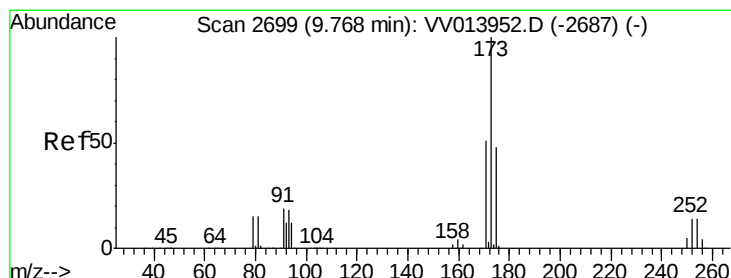
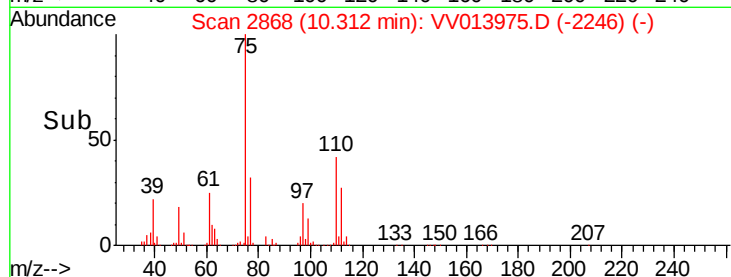
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 50.385 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

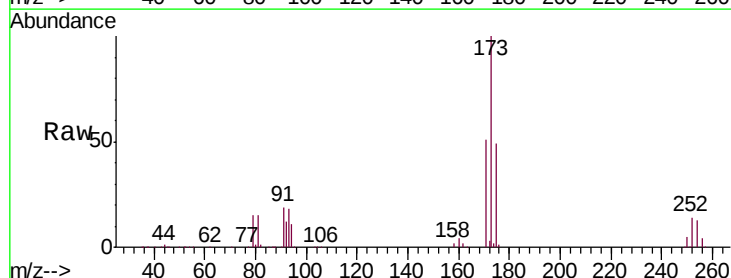
Tgt Ion: 173 Resp: 218023

Ion Ratio Lower Upper

173 100

175 49.5 38.4 57.6

254 13.5 10.5 15.7



Abundance Ion 173.00 (172.70 to 173.70): VV013975.D (-2606) (-)

Ion 175.00 (174.70 to 175.70): VV013975.D (-2606) (-)

Ion 254.00 (253.70 to 254.70): VV013975.D (-2606) (-)

9.77

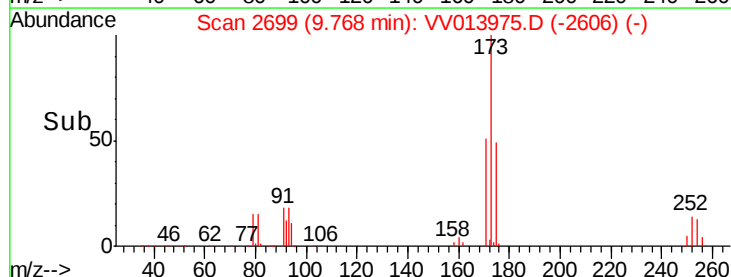
150000

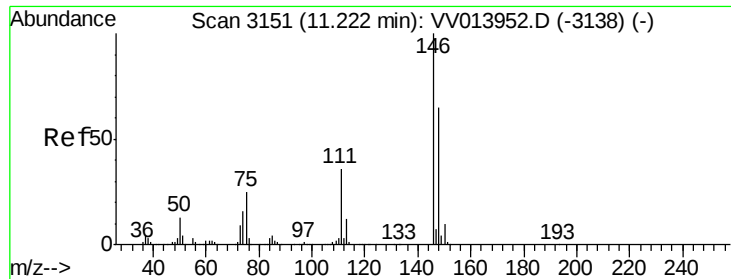
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 46.526 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

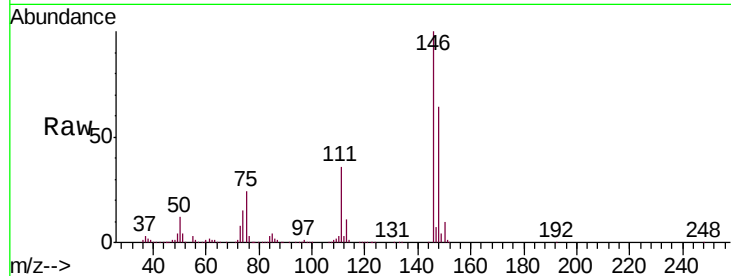
Tgt Ion:146 Resp: 540025

Ion Ratio Lower Upper

146 100

111 36.3 25.8 48.0

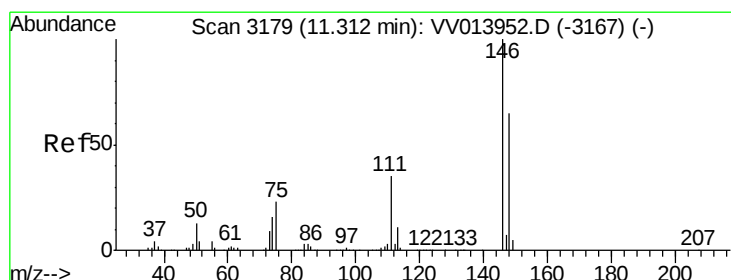
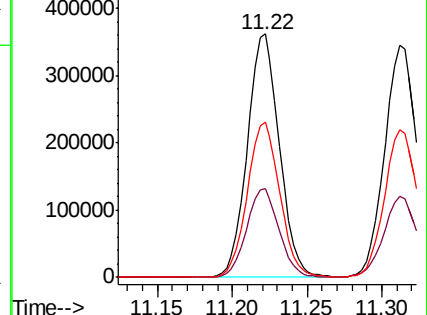
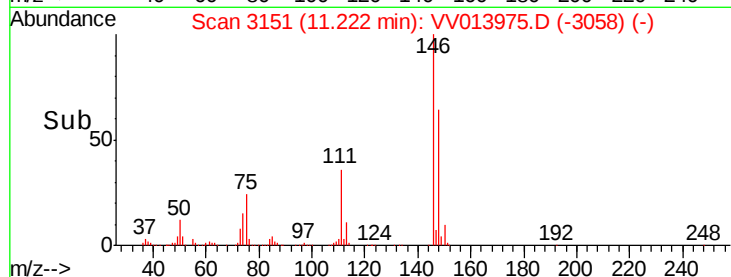
148 63.9 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 44.073 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

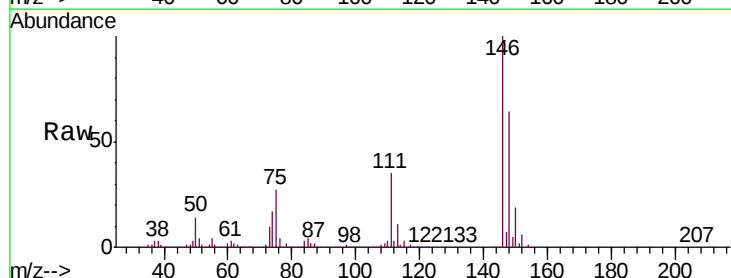
Tgt Ion:146 Resp: 528853

Ion Ratio Lower Upper

146 100

111 34.8 25.4 47.2

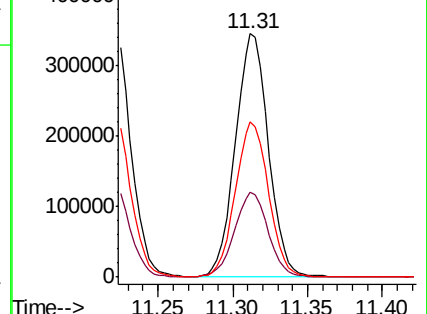
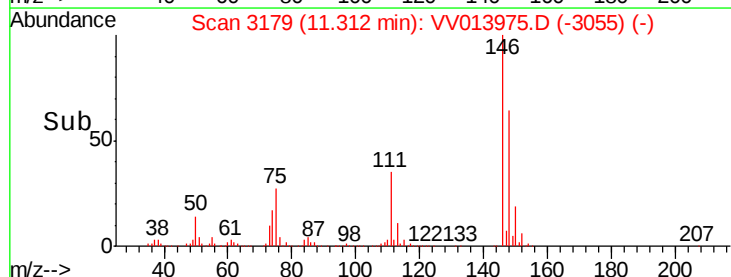
148 63.6 44.9 83.5

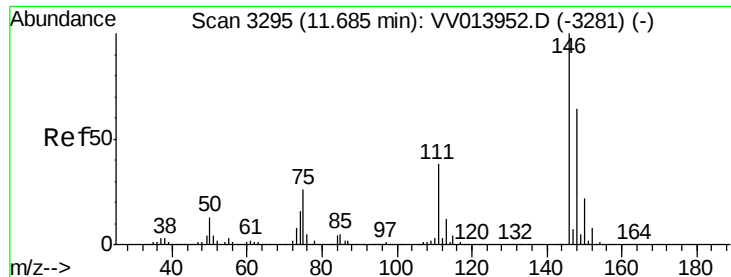


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 48.199 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

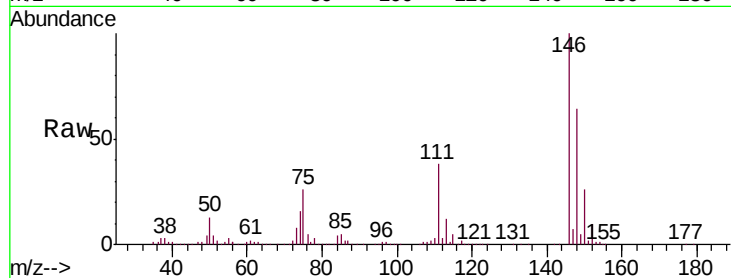
Tgt Ion: 146 Resp: 559605

Ion Ratio Lower Upper

146 100

111 38.4 31.4 47.0

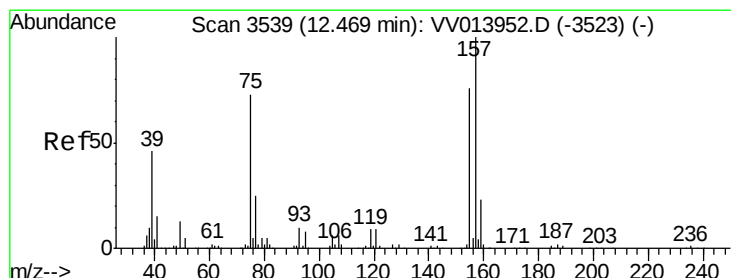
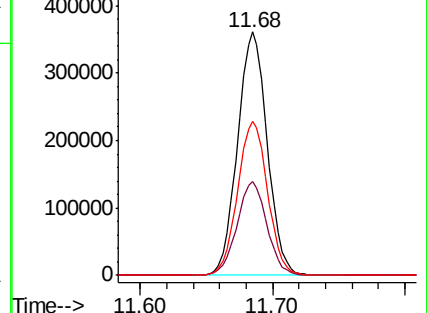
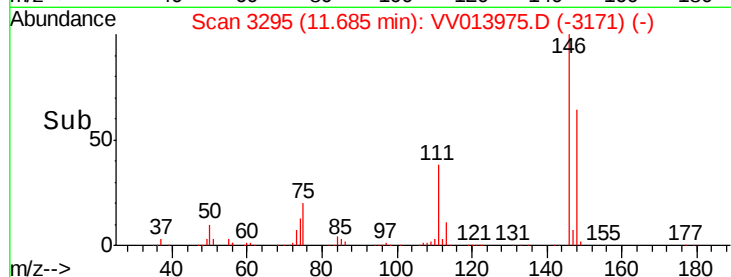
148 63.5 51.5 77.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 45.321 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

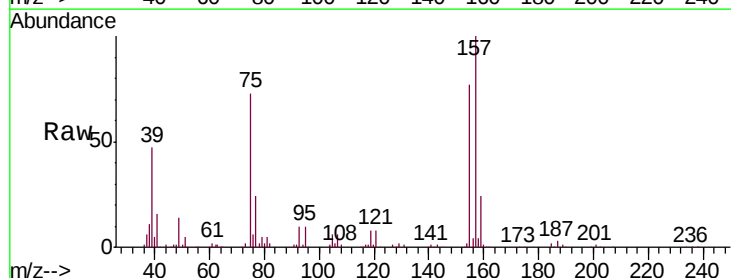
Tgt Ion: 75 Resp: 73128

Ion Ratio Lower Upper

75 100

155 104.6 78.6 117.8

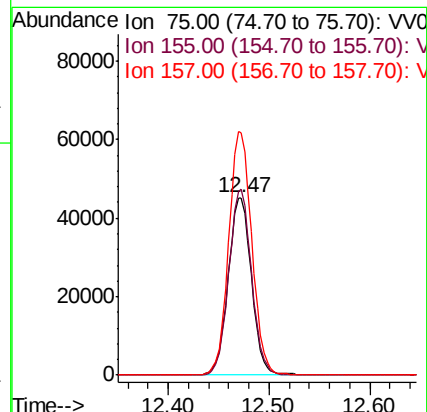
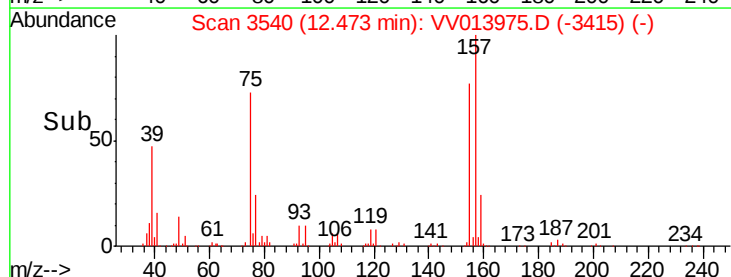
157 136.8 102.6 153.8

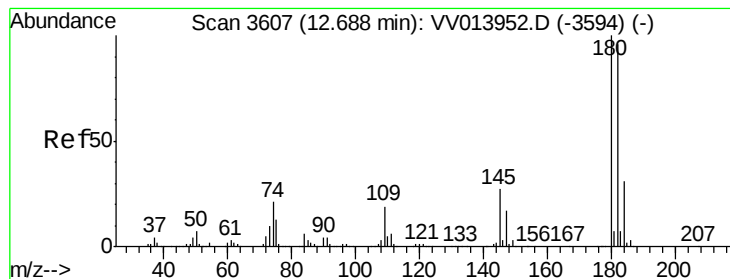


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#67

1,3,5-Trichlorobenzene

Concen: 44.296 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

Tgt Ion:180 Resp: 417522

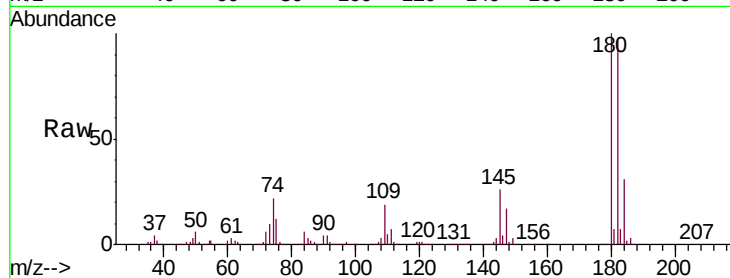
Ion Ratio Lower Upper

180 100

182 96.1 76.2 114.4

184 30.8 24.2 36.4

145 26.1 21.1 31.7

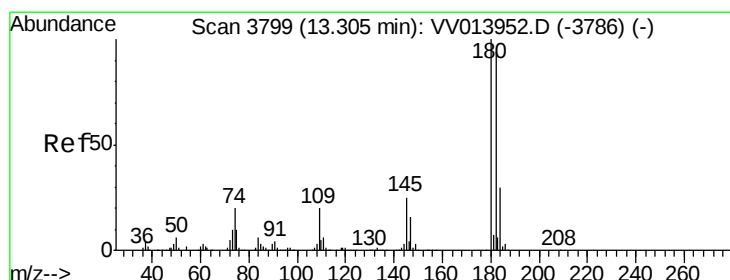
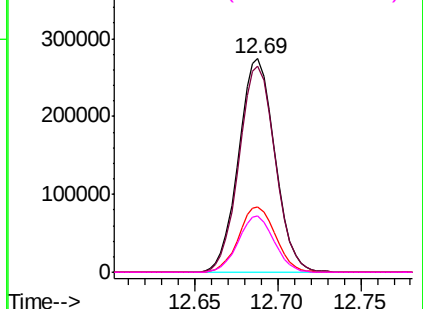
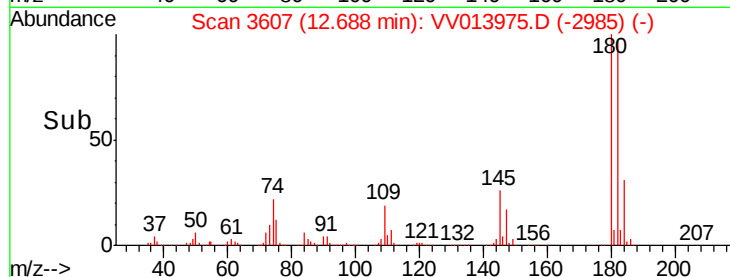


Abundance Ion 180.00 (179.70 to 180.70): V

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: 37.774 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

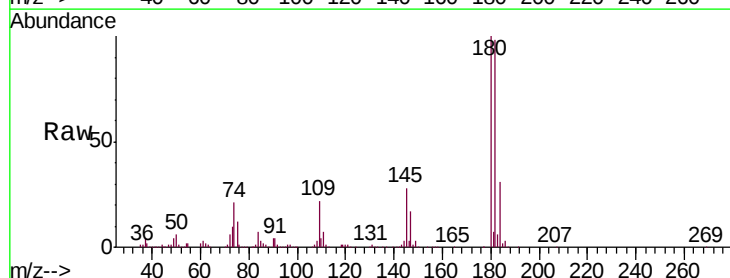
Tgt Ion:180 Resp: 321264

Ion Ratio Lower Upper

180 100

182 97.4 76.2 114.4

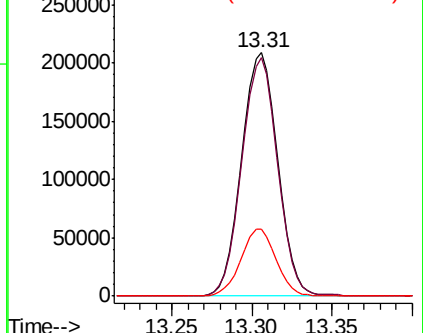
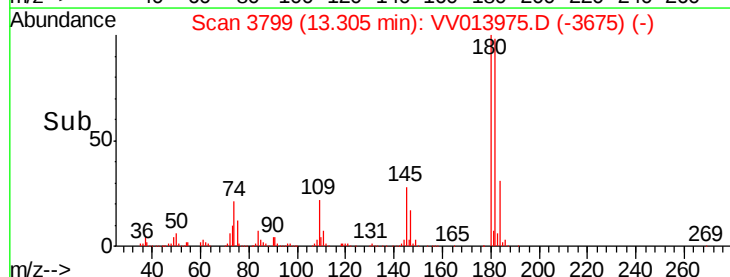
145 26.9 21.9 32.9

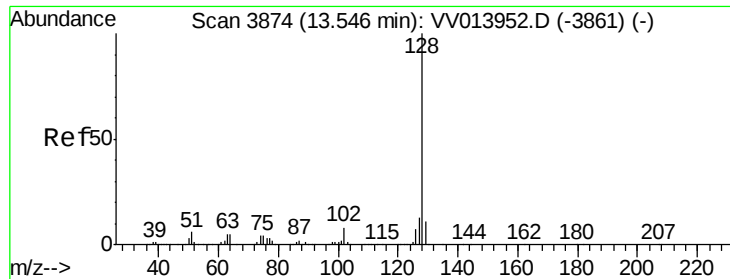


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 26.393 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

Instrument :

MSVOA_V

ClientSampleId :

VSTD05074

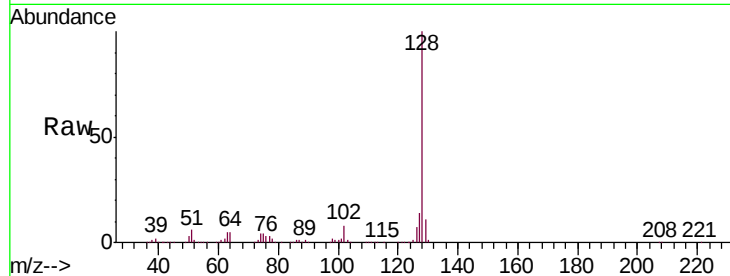
Tgt Ion:128 Resp: 589385

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

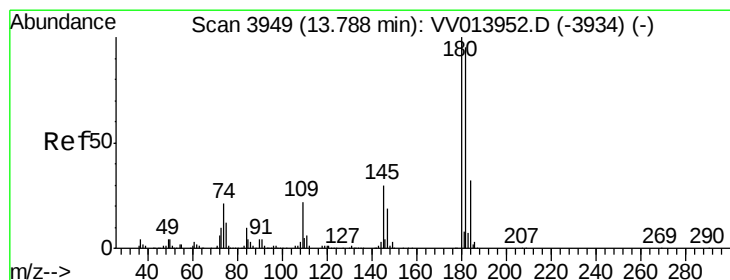
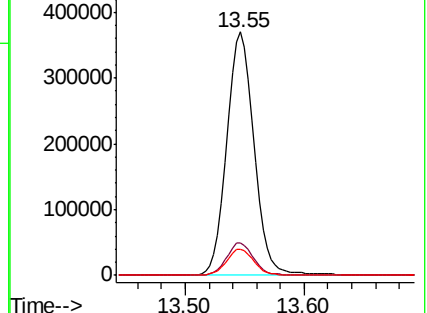
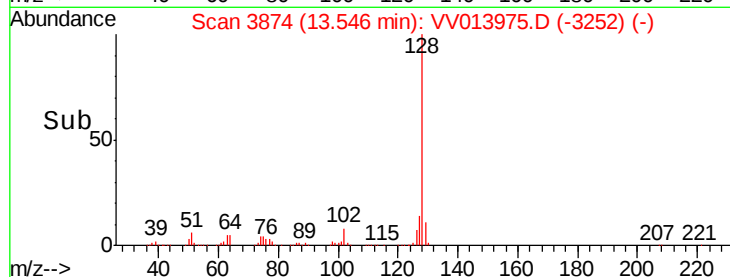
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 43.013 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013975.D

Acq: 09 Dec 2019 20:38

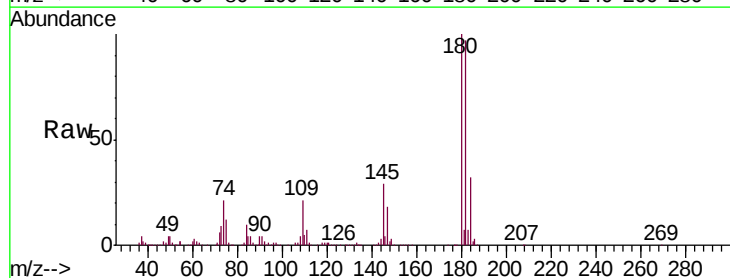
Tgt Ion:180 Resp: 382565

Ion Ratio Lower Upper

180 100

182 96.6 77.0 115.4

145 28.8 22.6 34.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

