

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072320\
 Data File : VV017613.D
 Acq On : 23 Jul 2020 19:27
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Quant Time: Jul 24 01:57:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 24 01:49:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	184965	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	179746	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	102064	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	41267	4.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.40%
7) Chloroethane-d5	1.58	69	32515	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.20%
11) 1,1-Dichloroethene-d2	2.13	63	94663	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.60%
20) 2-Butanone-d5	3.95	46	103940	49.19	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.38%
24) Chloroform-d	4.38	84	106624	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
26) 1,2-Dichloroethane-d4	5.06	65	53482	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.07	84	189314	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	6.10	67	52626	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	7.34	98	185658	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
45) trans-1,3-Dichloropropene-	7.64	79	23279	4.66	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.20%
48) 2-Hexanone-d5	8.11	63	77442	50.06	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.12%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	38095	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	71827	4.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	90803	4.480 ug/L	100
3) Chloromethane	1.25	50	63366	4.806 ug/L	95
5) Vinyl chloride	1.32	62	62361	4.719 ug/L	98
6) Bromomethane	1.53	94	42194	4.968 ug/L	97
8) Chloroethane	1.60	64	38810	5.088 ug/L	95
9) Trichlorofluoromethane	1.77	101	112181	4.746 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	51207	4.639 ug/L	97
12) 1,1-Dichloroethene	2.13	96	48795	4.899 ug/L	97
13) Acetone	2.22	43	82073	49.620 ug/L #	52
14) Carbon disulfide	2.31	76	146609	4.842 ug/L	98
15) Methyl Acetate	2.46	43	17195	5.343 ug/L	92
16) Methylene chloride	2.52	84	51778	4.672 ug/L	95
17) Methyl tert-butyl Ether	2.79	73	128218	5.022 ug/L	97
18) trans-1,2-Dichloroethene	2.78	96	53774	4.955 ug/L	100
19) 1,1-Dichloroethane	3.21	63	116574	5.108 ug/L	100
21) 2-Butanone	4.03	43	140421	50.277 ug/L	97
22) cis-1,2-Dichloroethene	3.94	96	67011	4.903 ug/L	95

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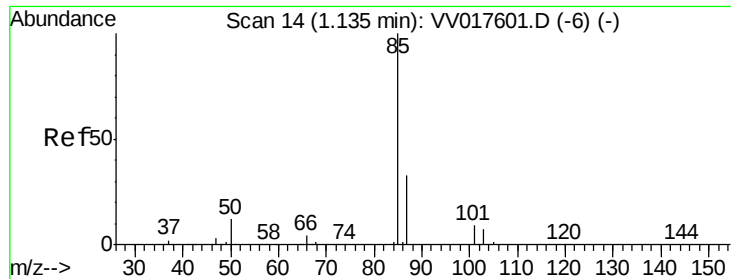
Instrument :
 MSVOA_V
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.28	128	30700	4.874	ug/L	96
25) Chloroform	4.40	83	128413	5.013	ug/L	95
27) 1,2-Dichloroethane	5.16	62	83255	5.012	ug/L #	95
29) 1,1,1-Trichloroethane	4.63	97	121655	4.838	ug/L	99
30) Cyclohexane	4.70	56	88640	4.449	ug/L	99
31) Carbon tetrachloride	4.85	117	108221	4.838	ug/L	100
33) Benzene	5.12	78	252107	4.955	ug/L	100
34) Trichloroethene	5.94	95	69916	4.920	ug/L	95
35) Methylcyclohexane	6.15	83	95264	4.431	ug/L	98
37) 1,2-Dichloropropane	6.20	63	57983	4.849	ug/L	99
38) Bromodichloromethane	6.53	83	87720	4.987	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	89989	4.990	ug/L	97
40) 4-Methyl-2-pentanone	7.25	43	333241	50.829	ug/L	99
42) Toluene	7.41	91	280156	5.048	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	262540	5.066	ug/L	100
44) 1,2,4-Trimethylbenzene	10.94	105	273812	5.171	ug/L	99
46) trans-1,3-Dichloropropene	7.67	75	80284	4.958	ug/L	99
47) 1,1,2-Trichloroethane	7.86	97	45216	4.986	ug/L	96
49) Tetrachloroethene	8.00	164	60296	4.812	ug/L	99
50) 2-Hexanone	8.16	43	236333	50.946	ug/L	95
51) Dibromochloromethane	8.27	129	58191	5.042	ug/L	95
52) 1,2-Dibromoethane	8.38	107	41537	4.854	ug/L	99
53) Chlorobenzene	8.90	112	183202	4.951	ug/L	99
54) Ethylbenzene	9.03	91	306964	4.940	ug/L	99
55) m,p-xylene	9.16	106	119532	5.107	ug/L	95
56) o-xylene	9.56	106	115455	5.084	ug/L	98
57) Styrene	9.58	104	199279	5.258	ug/L	97
58) Isopropylbenzene	9.95	105	316920	5.058	ug/L	99
60) 1,1,2,2-Tetrachloroethane	10.26	83	48275	4.886	ug/L	97
62) Bromoform	9.75	173	32464	4.970	ug/L	100
63) 1,3-Dichlorobenzene	11.20	146	160502	4.884	ug/L	97
64) 1,4-Dichlorobenzene	11.30	146	158212	4.798	ug/L	97
66) 1,2-Dichlorobenzene	11.67	146	146288	4.887	ug/L	98
67) 1,2-Dibromo-3-chloropropan	12.45	75	9758	5.213	ug/L	92
68) 1,3,5-Trichlorobenzene	12.67	180	129596	4.855	ug/L	97
69) 1,2,4-trichlorobenzene	13.28	180	105919	4.744	ug/L	99
70) Naphthalene	13.53	128	152344	4.894	ug/L	99
71) 1,2,3-Trichlorobenzene	13.77	180	92854	4.693	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 4.480 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017613.D

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Instrument :

MSVOA_V

ClientSampleId :

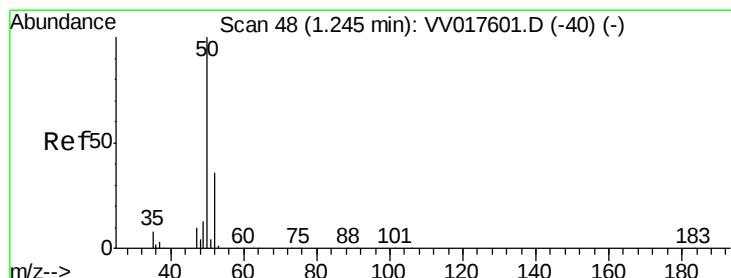
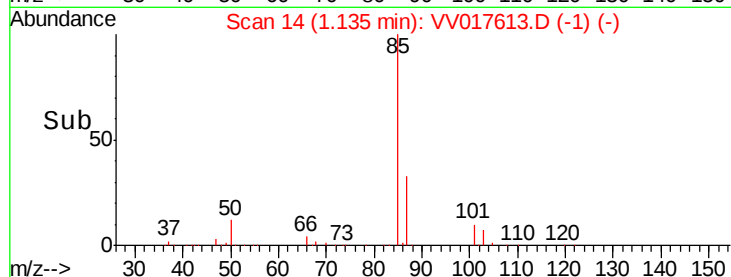
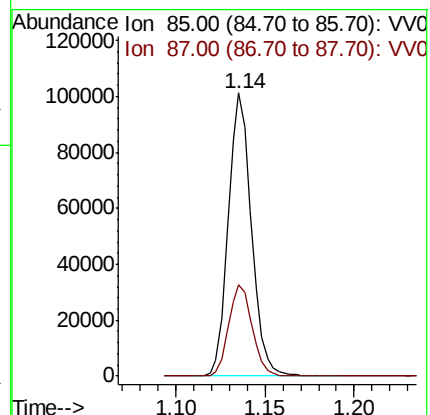
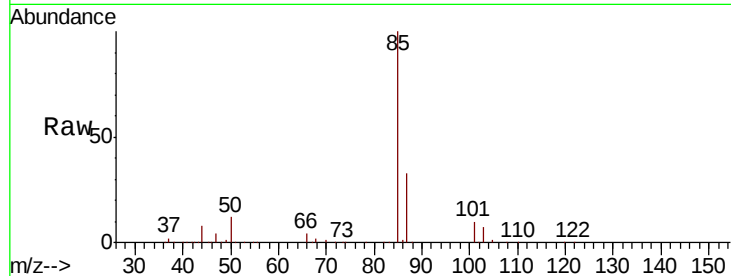
VSTD00554

Tot Ion: 85 Resp: 90803

Ion Ratio Lower Upper

85 100

87 32.9 26.4 39.6



#3

Chloromethane

Concen: 4.806 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV017613.D

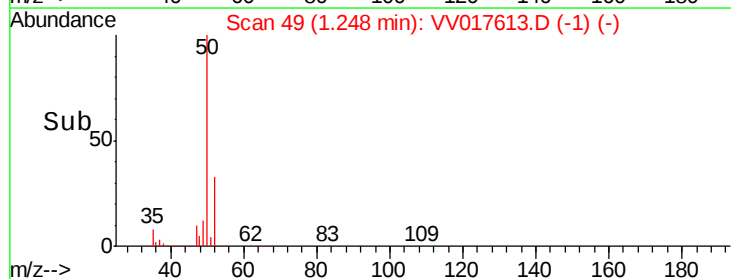
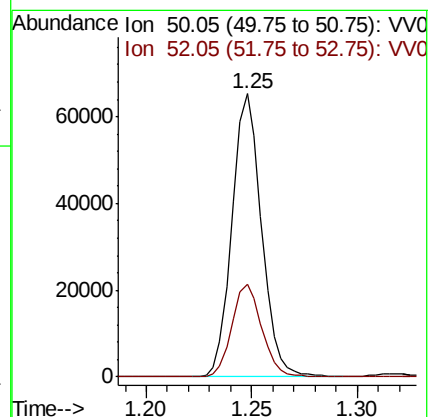
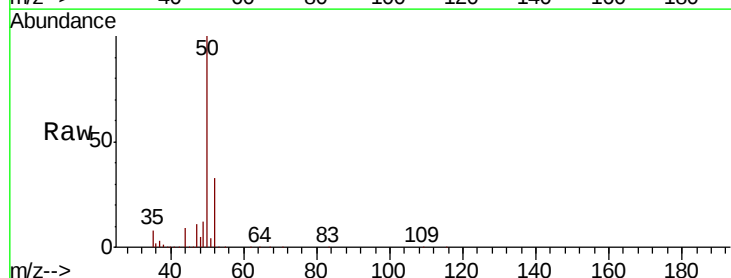
Acq: 23 Jul 2020 19:27

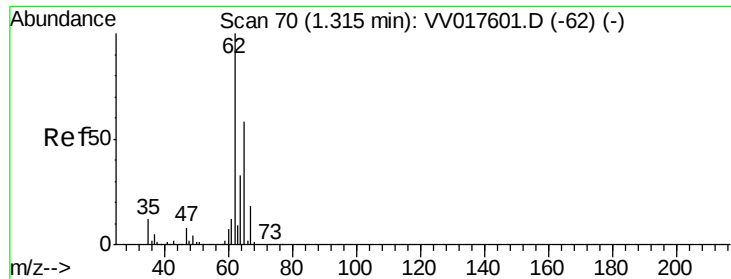
Tgt Ion: 50 Resp: 63366

Ion Ratio Lower Upper

50 100

52 32.8 25.1 46.5





#5

Vinyl chloride

Concen: 4.719 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

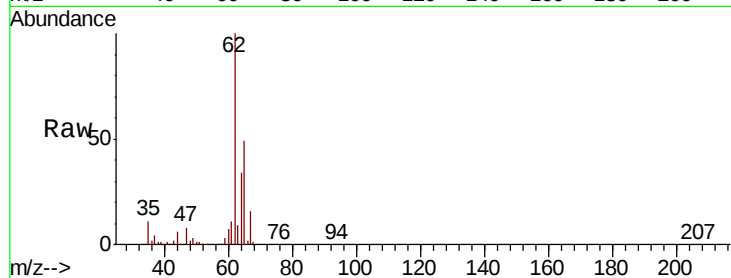
VSTD00554

Tot Ion: 62 Resp: 62361

Ion Ratio Lower Upper

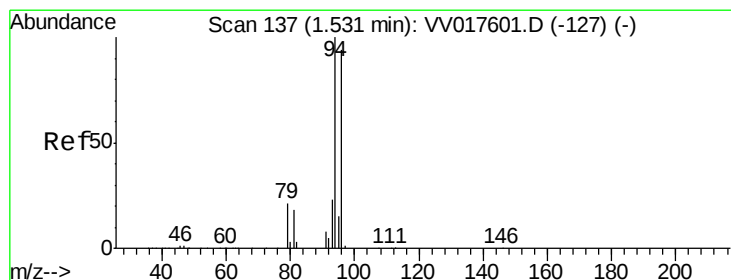
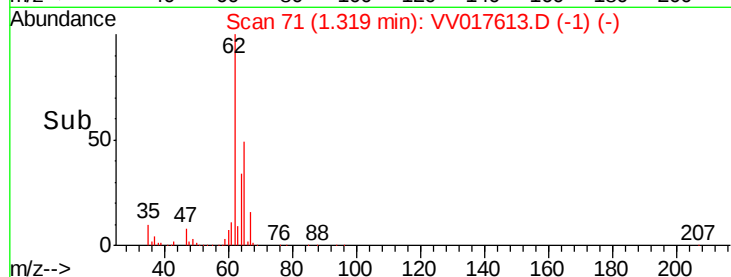
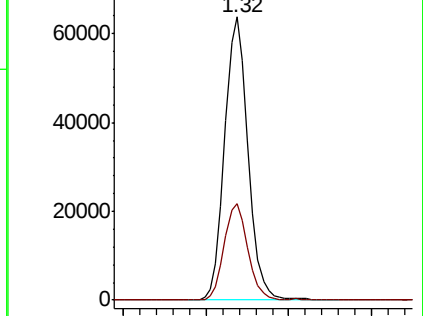
62 100

64 34.0 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV017613.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV017613.D (-62) (-)



#6

Bromomethane

Concen: 4.968 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV017613.D

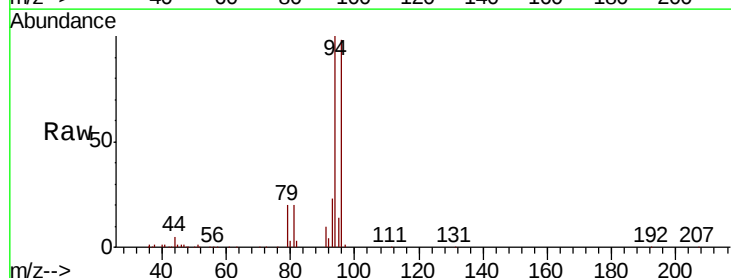
Acq: 23 Jul 2020 19:27

Tgt Ion: 94 Resp: 42194

Ion Ratio Lower Upper

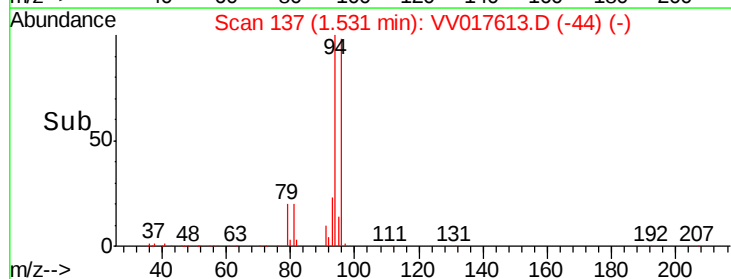
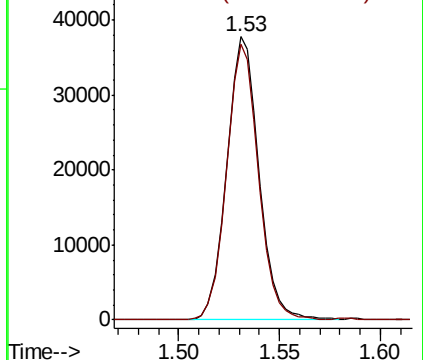
94 100

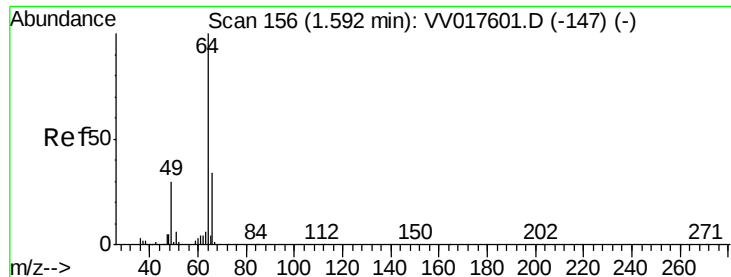
96 97.5 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VV017613.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VV017613.D (-127) (-)





#8

Chloroethane

Concen: 5.088 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

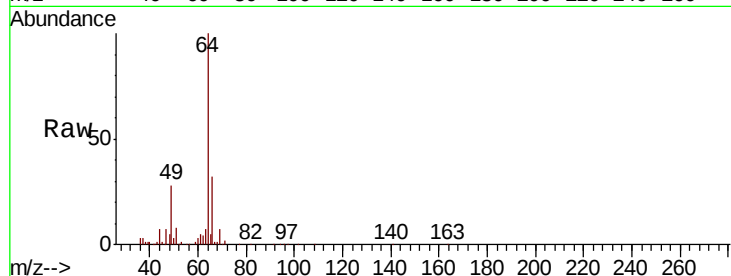
VSTD00554

Tot Ion: 64 Resp: 38810

Ion Ratio Lower Upper

64 100

66 31.6 24.0 44.6



Abundance Ion 64.10 (63.80 to 64.80): VV017613.D (-147) (-)

Ion 66.05 (65.75 to 66.75): VV017613.D (-147) (-)

1.60

40000

30000

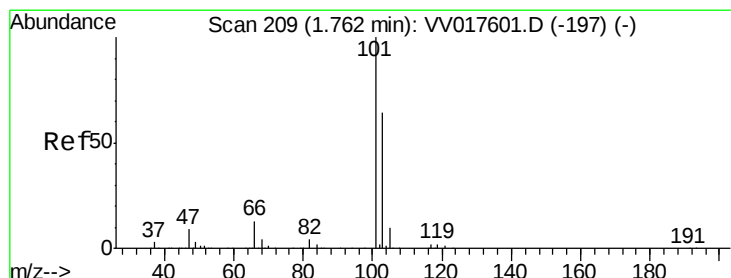
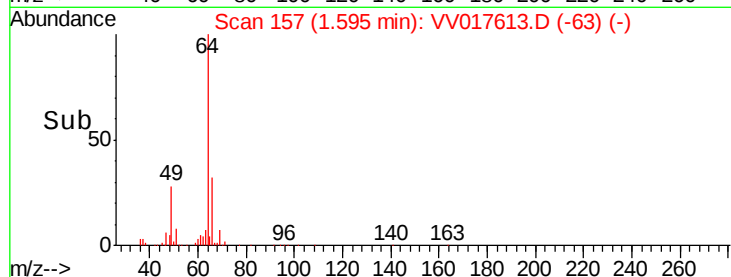
20000

10000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 4.746 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV017613.D

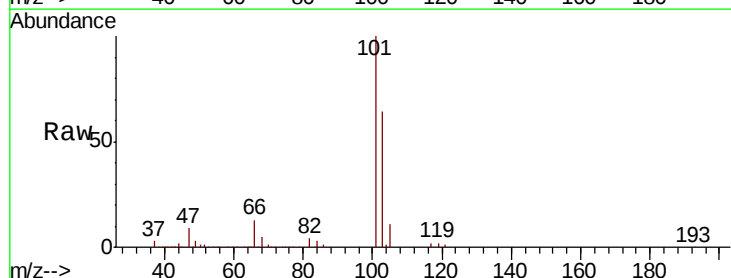
Acq: 23 Jul 2020 19:27

Tgt Ion: 101 Resp: 112181

Ion Ratio Lower Upper

101 100

103 63.1 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VV017613.D (-116) (-)

Ion 103.00 (102.70 to 103.70): VV017613.D (-116) (-)

1.77

100000

80000

60000

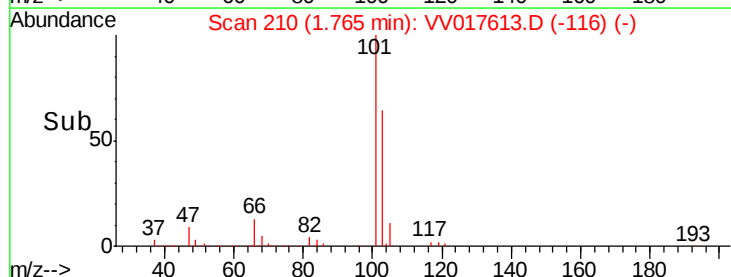
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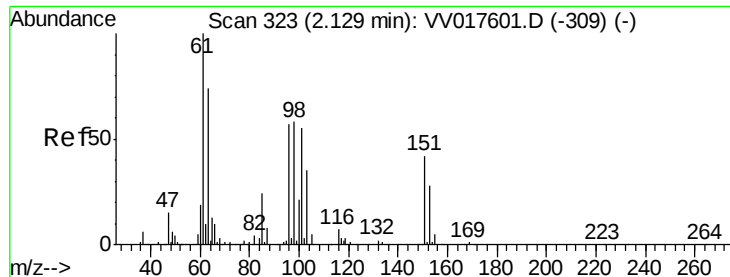
20000

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Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 4.639 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

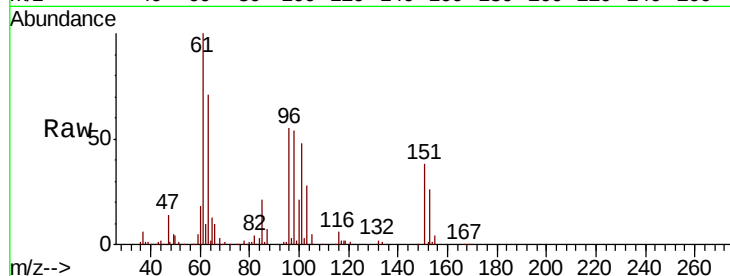
Tot Ion:101 Resp: 51207

Ion Ratio Lower Upper

101 100

85 45.5 34.6 51.8

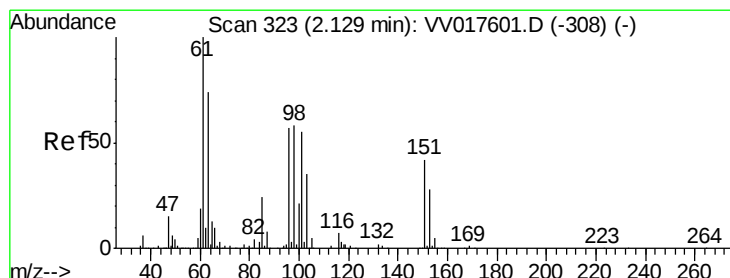
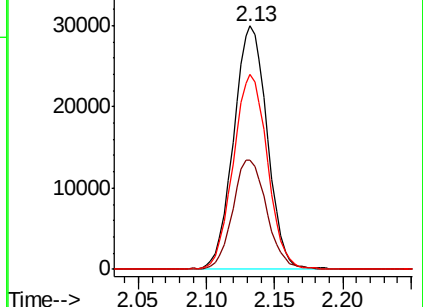
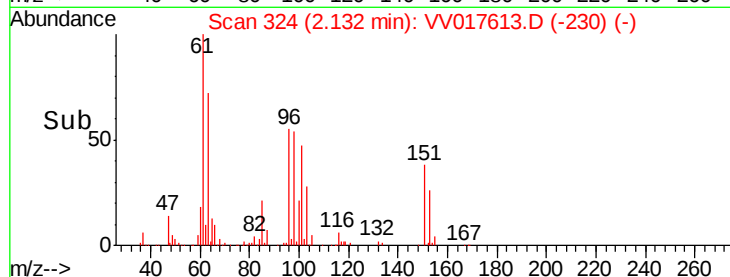
151 81.5 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): VV017613.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV017613.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV017613.D (-230) (-)



#12

1,1-Dichloroethene

Concen: 4.899 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

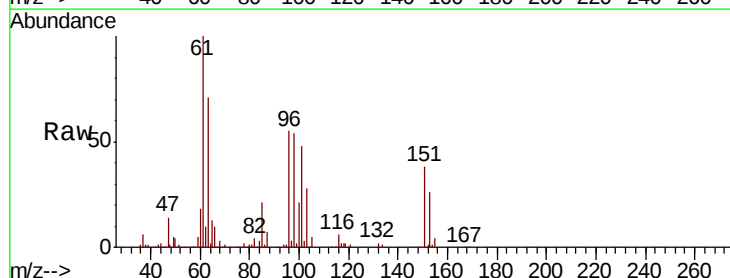
Tgt Ion: 96 Resp: 48795

Ion Ratio Lower Upper

96 100

61 182.7 123.1 228.7

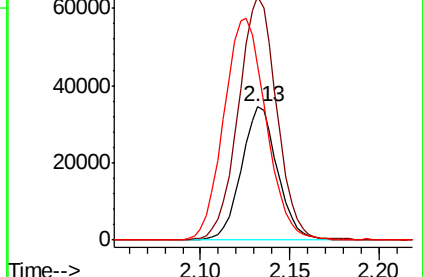
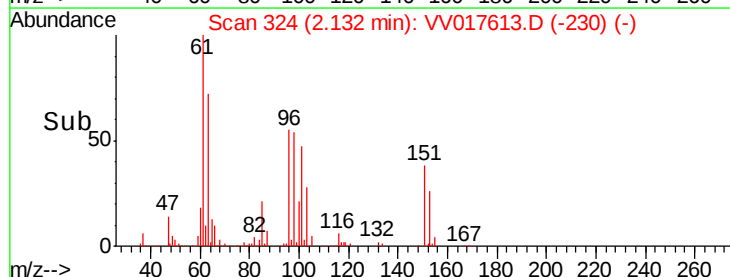
63 130.6 91.2 169.4

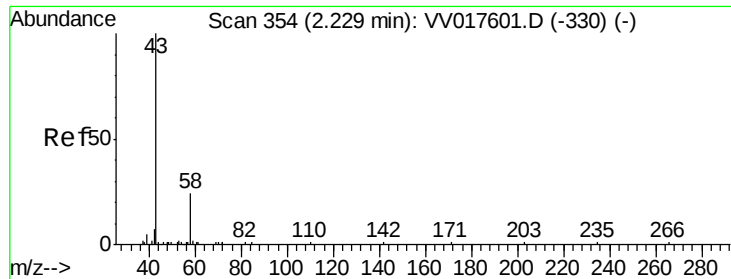


Abundance Ion 96.00 (95.70 to 96.70): VV017613.D (-230) (-)

Ion 61.05 (60.75 to 61.75): VV017613.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV017613.D (-230) (-)





#13

Acetone

Concen: 49.620 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.01 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

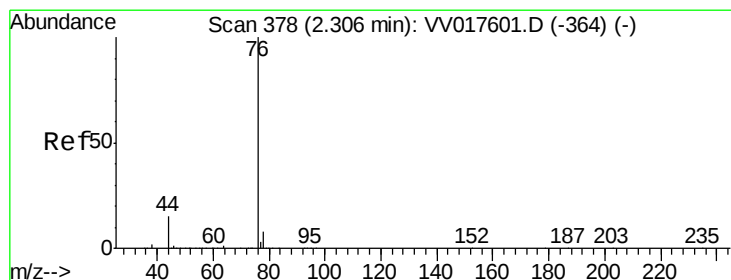
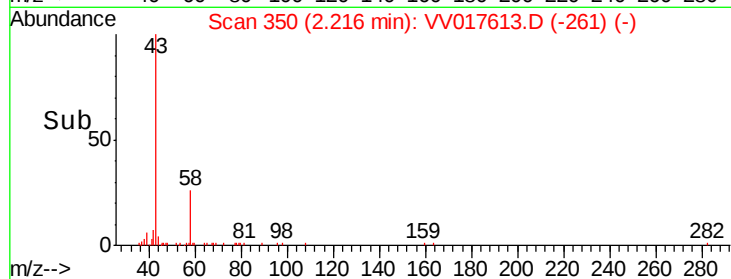
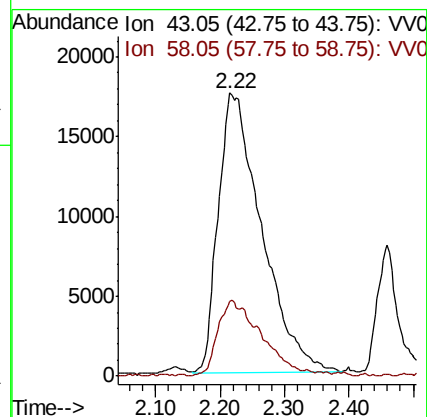
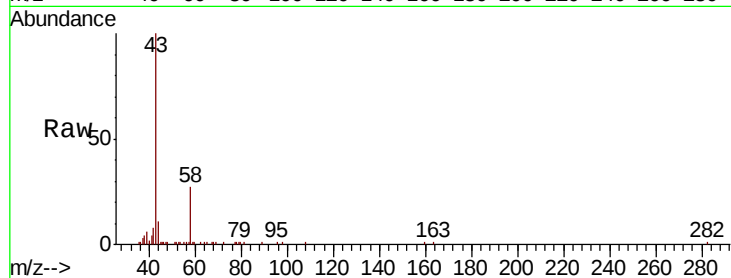
VSTD00554

Tot Ion: 43 Resp: 82073

Ion Ratio Lower Upper

43 100

58 26.9 0.0 18.6#



#14

Carbon disulfide

Concen: 4.842 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017613.D

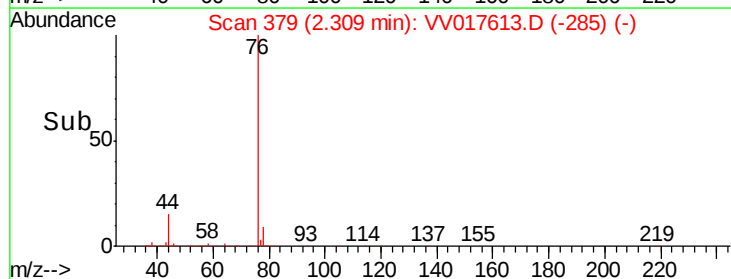
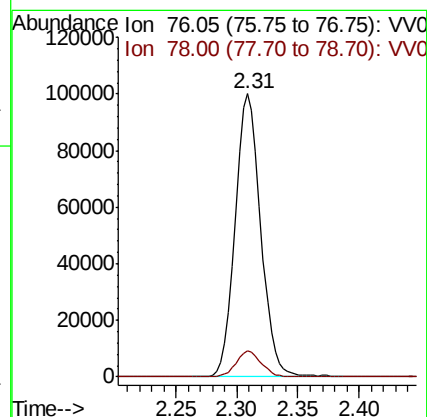
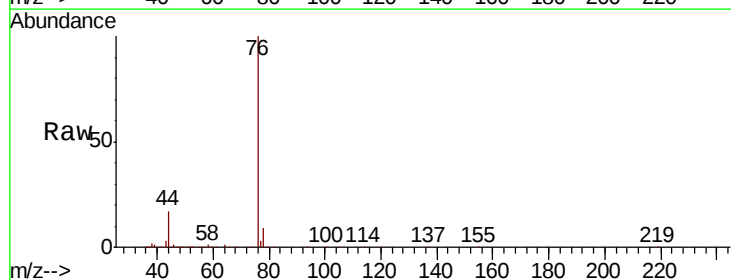
Acq: 23 Jul 2020 19:27

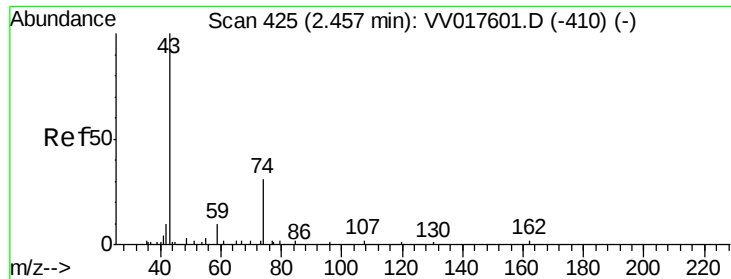
Tgt Ion: 76 Resp: 146609

Ion Ratio Lower Upper

76 100

78 9.1 6.6 10.0





#15

Methvl Acetate

Concen: 5.343 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

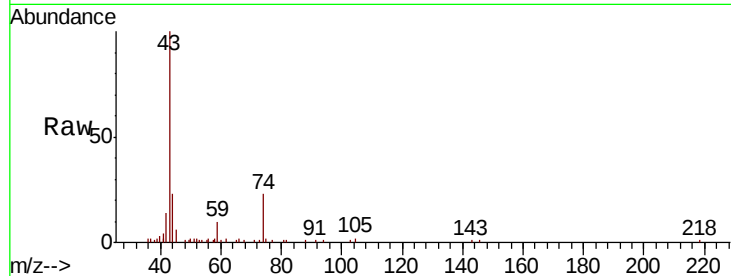
VSTD00554

Tot Ion: 43 Resp: 17195

Ion Ratio Lower Upper

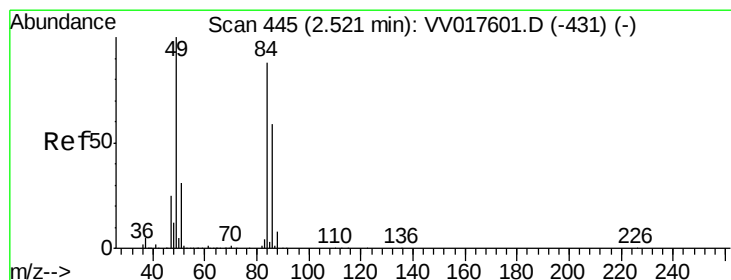
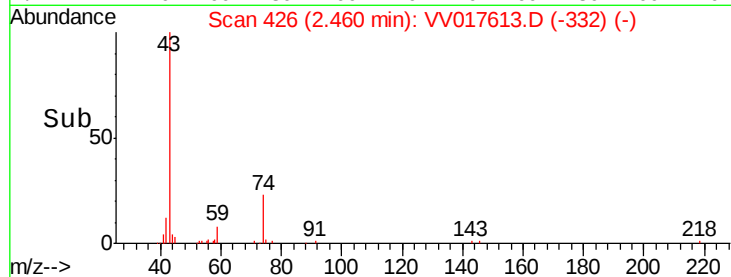
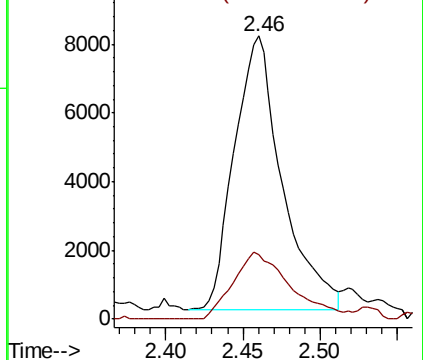
43 100

74 29.0 26.6 40.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 4.672 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

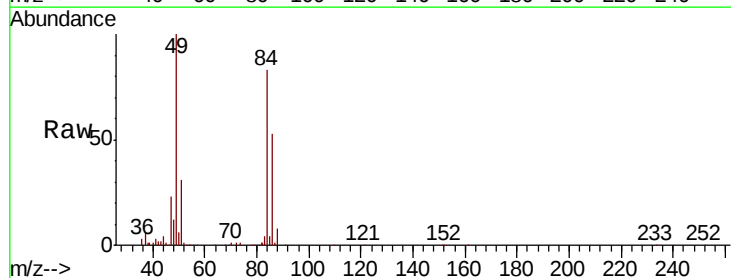
Tgt Ion: 84 Resp: 51778

Ion Ratio Lower Upper

84 100

86 64.0 46.5 86.3

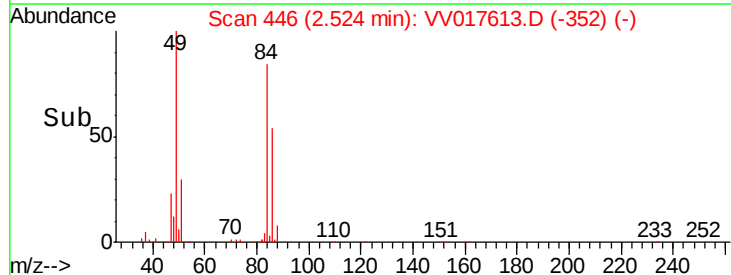
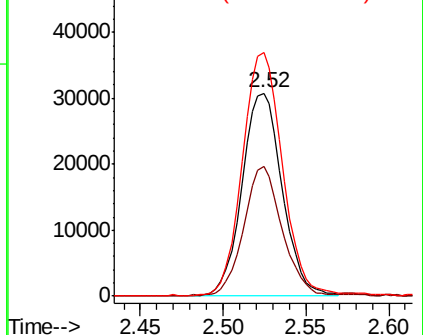
49 120.0 79.2 147.2

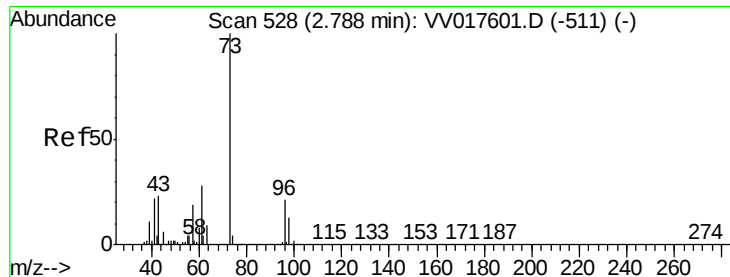


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

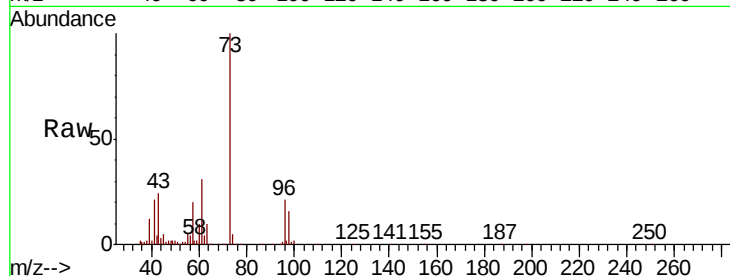




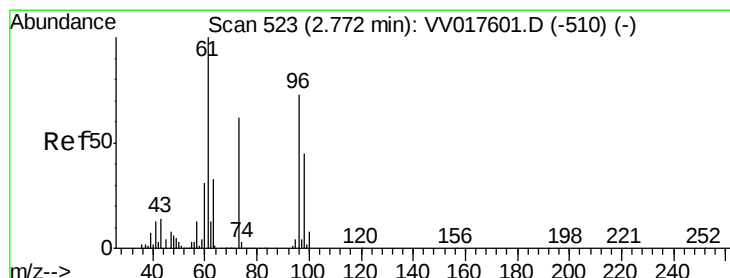
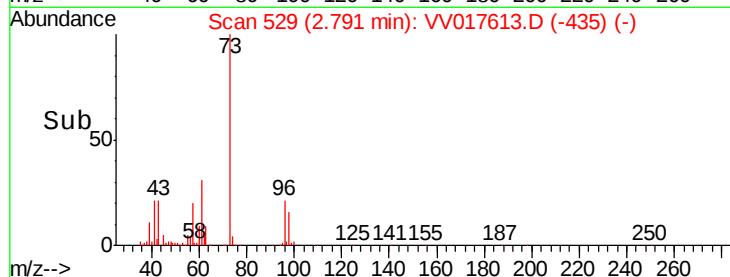
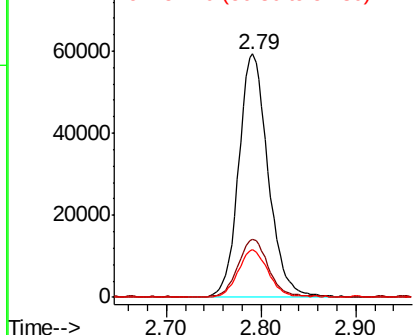
#17
Methvl tert-butvl Ether
Concen: 5.022 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Tot Ion	Ratio	Lower	Upper
73	100		
43	24.0	18.3	27.5
57	19.6	16.7	25.1

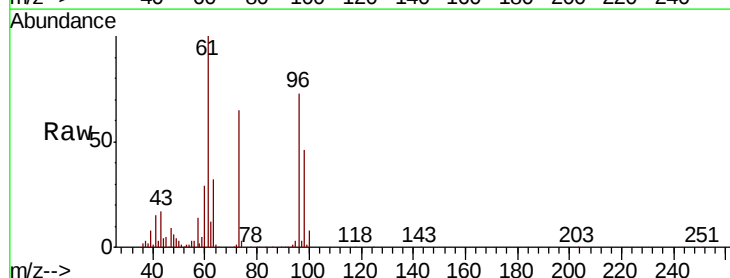


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

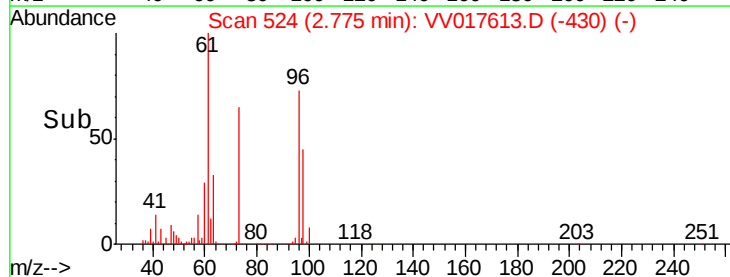
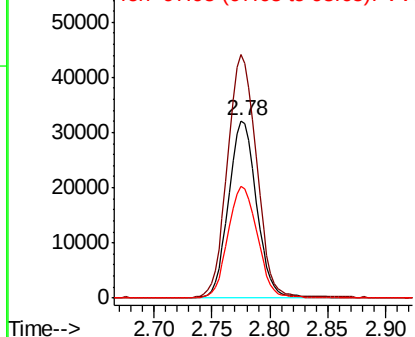


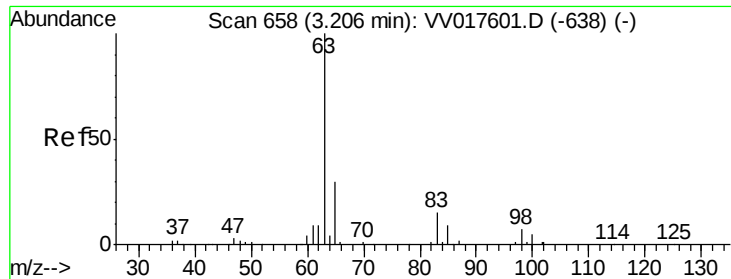
#18
trans-1,2-Dichloroethene
Concen: 4.955 ug/L
RT: 2.78 min Scan# 524
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.1	96.0	178.4
98	62.6	43.5	80.9



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

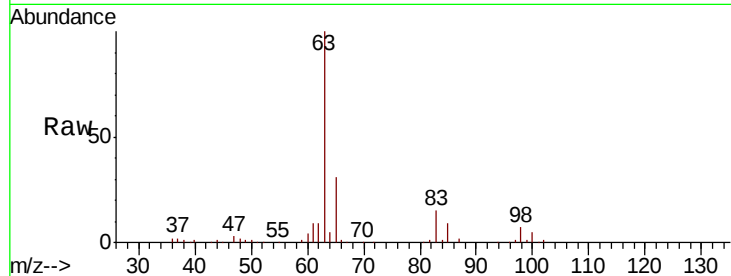




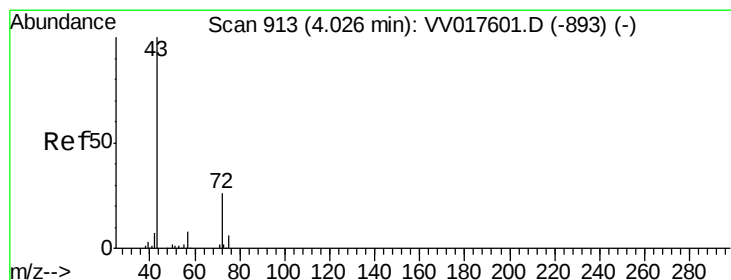
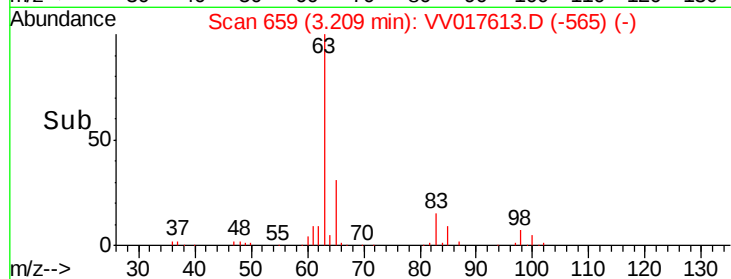
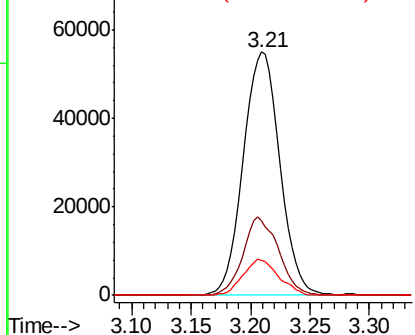
#19
 1,1-Dichloroethane
 Concen: 5.108 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Tot Ion: 63 Resp: 116574
 Ion Ratio Lower Upper
 63 100
 65 30.7 21.4 39.8
 83 14.5 10.4 19.4

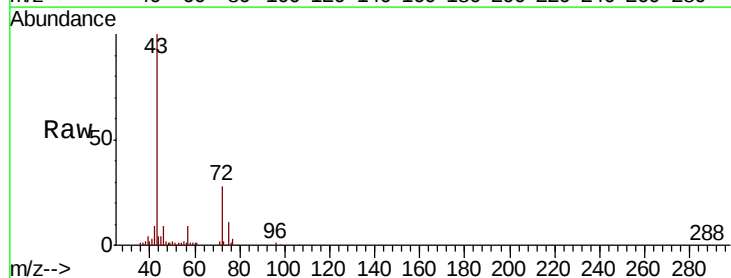


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

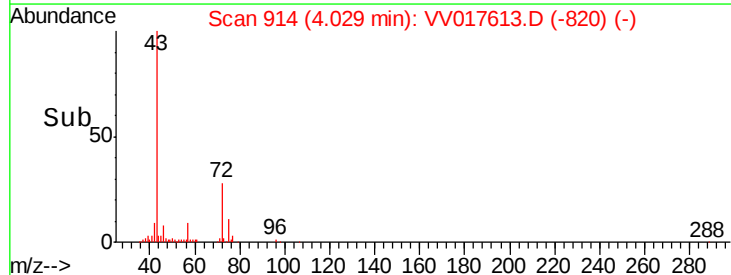
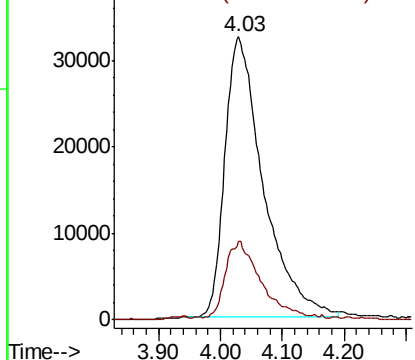


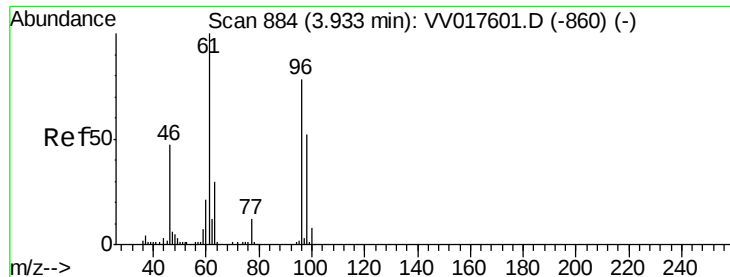
#21
 2-Butanone
 Concen: 50.277 ug/L
 RT: 4.03 min Scan# 914
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion: 43 Resp: 140421
 Ion Ratio Lower Upper
 43 100
 72 24.5 13.0 38.9



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



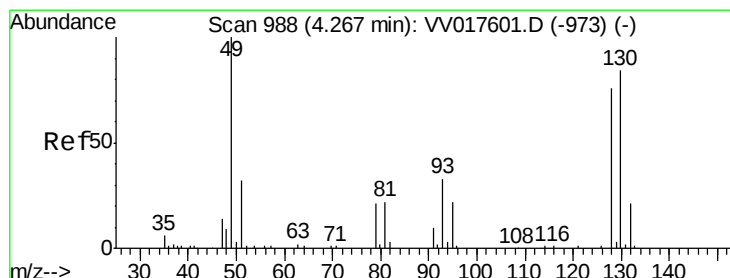
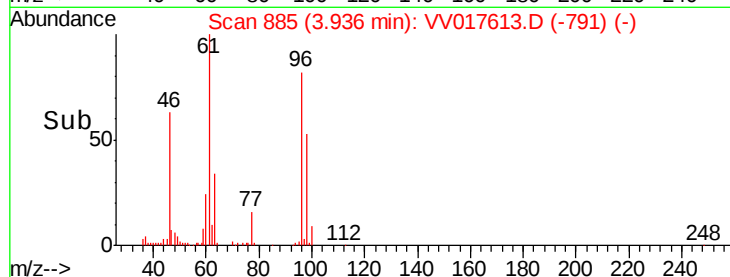
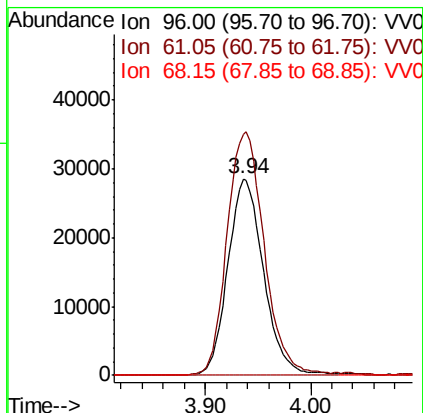
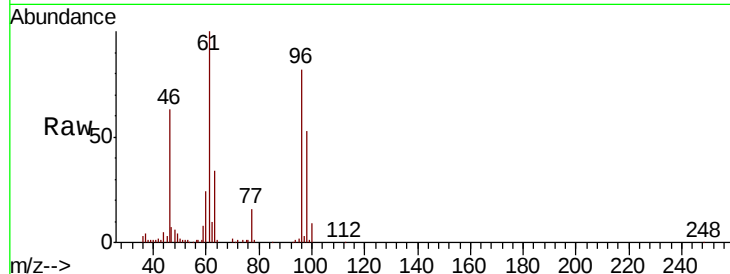


#22

cis-1,2-Dichloroethene
 Concen: 4.903 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

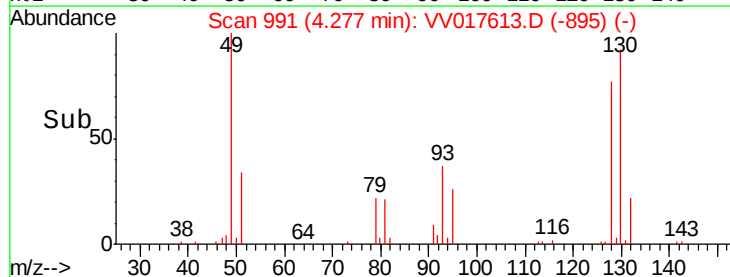
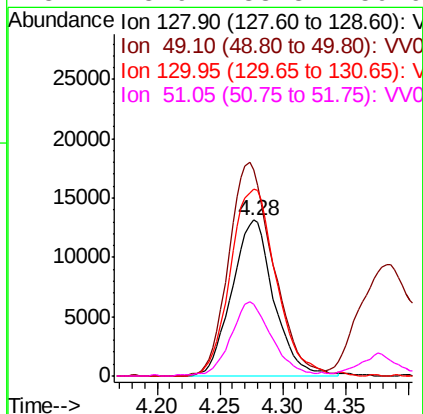
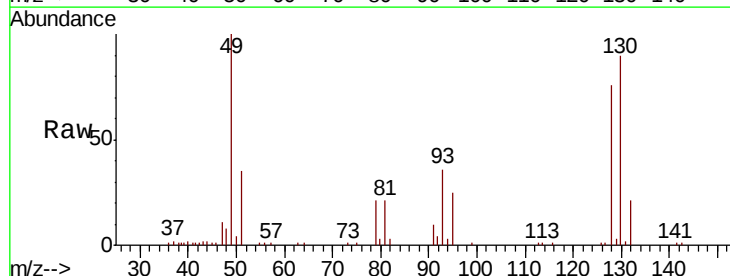
Tot Ion: 96 Resp: 67011
 Ion Ratio Lower Upper
 96 100
 61 122.3 89.6 166.4
 68 0.0 0.0 0.0

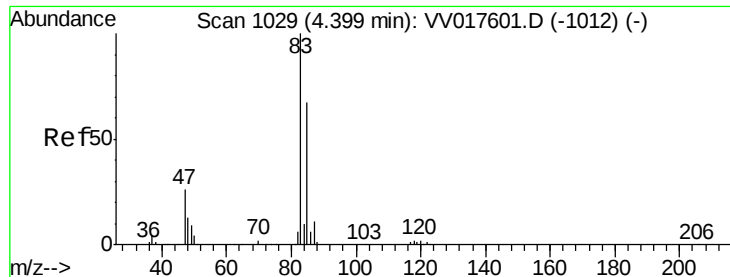


#23

Bromochloromethane
 Concen: 4.874 ug/L
 RT: 4.28 min Scan# 991
 Delta R.T. 0.01 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion: 128 Resp: 30700
 Ion Ratio Lower Upper
 128 100
 49 132.2 92.2 171.2
 130 119.6 77.2 143.4
 51 45.9 33.8 50.6

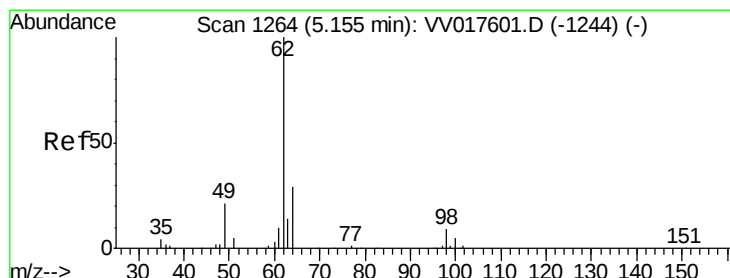
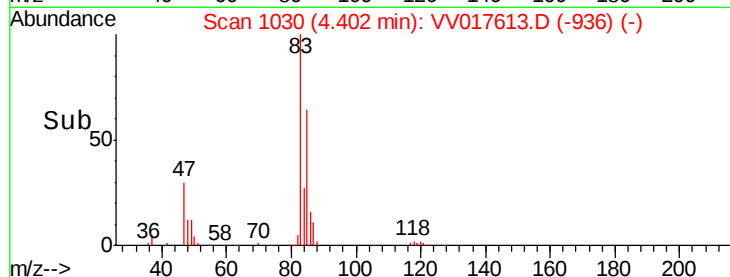
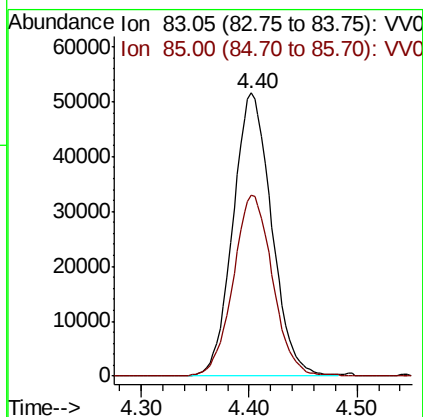
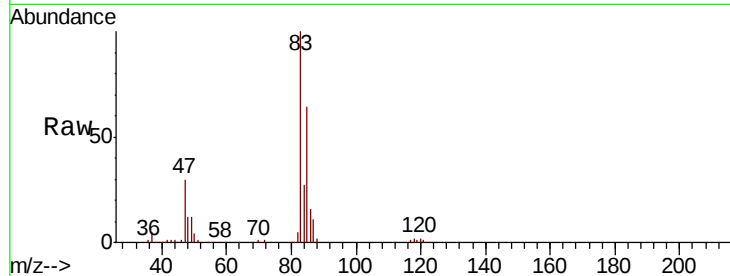




#25
Chloroform
Concen: 5.013 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

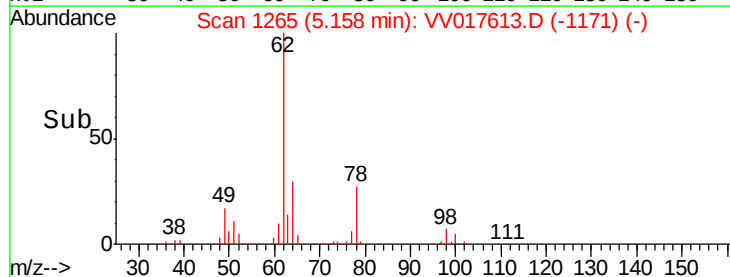
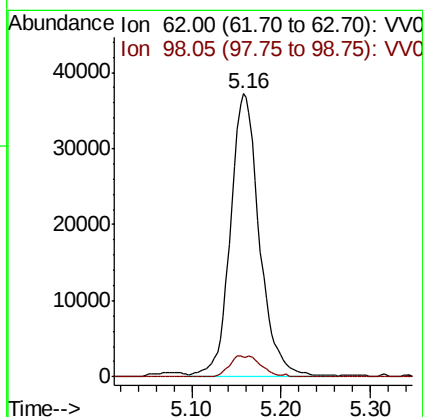
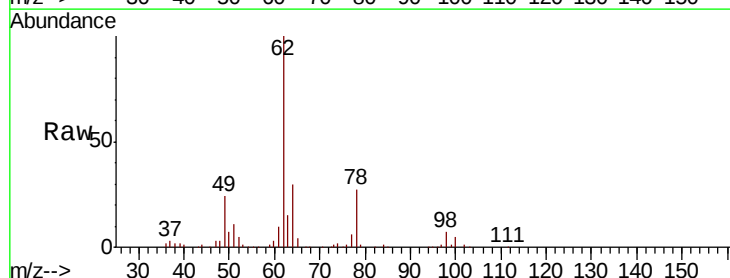
Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

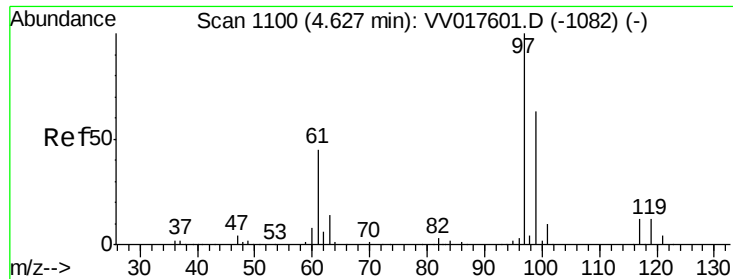
Tot Ion: 83 Resp: 128413
Ion Ratio Lower Upper
83 100
85 63.8 47.3 87.9



#27
1,2-Dichloroethane
Concen: 5.012 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Tgt Ion: 62 Resp: 83255
Ion Ratio Lower Upper
62 100
98 7.0 7.0 10.6#

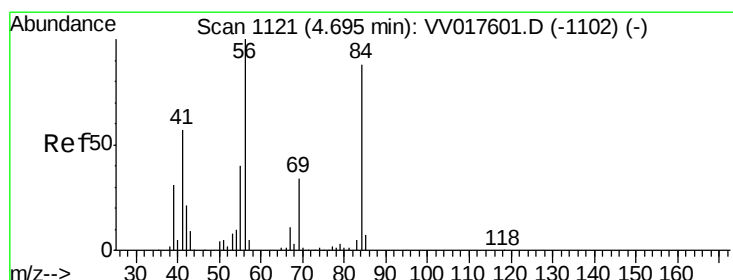
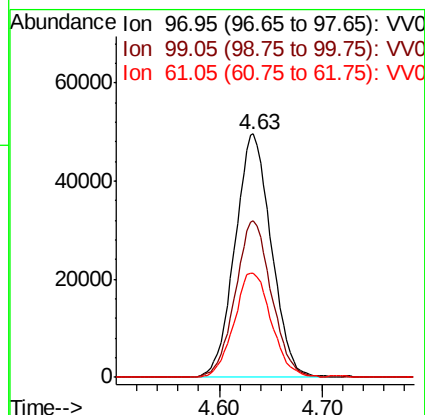
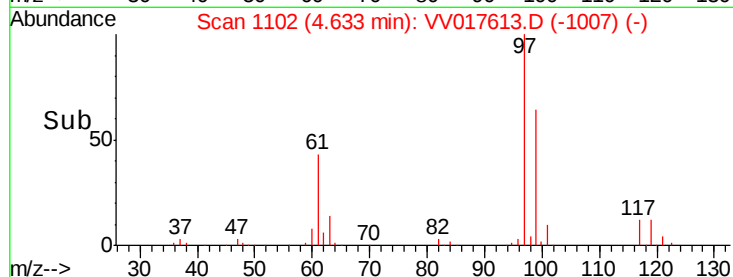
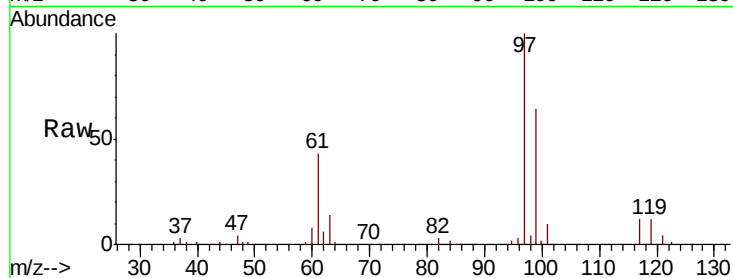




#29
1,1,1-Trichloroethane
Concen: 4.838 ug/L
RT: 4.63 min Scan# 1102
Delta R.T. 0.01 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

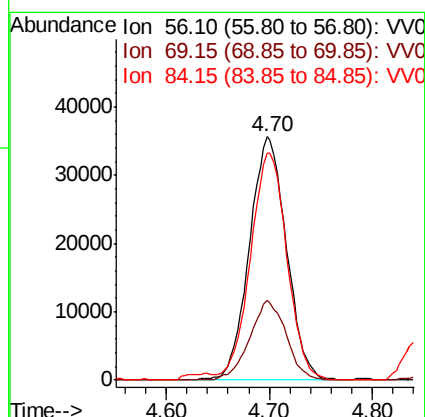
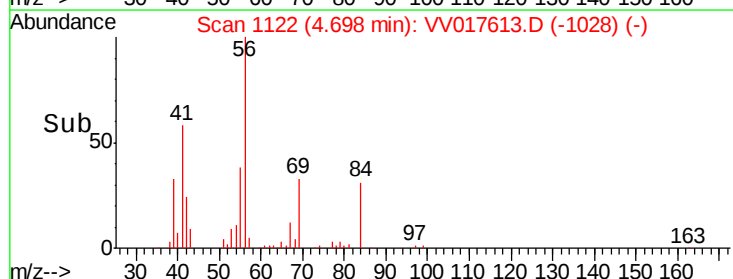
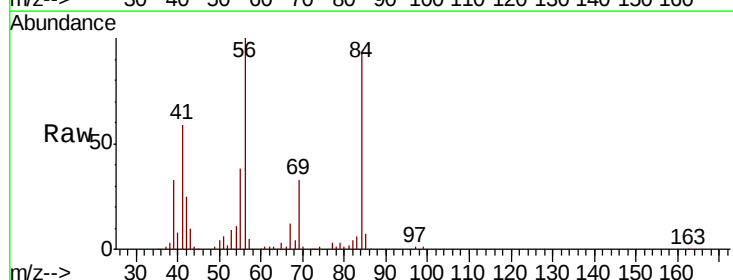
Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

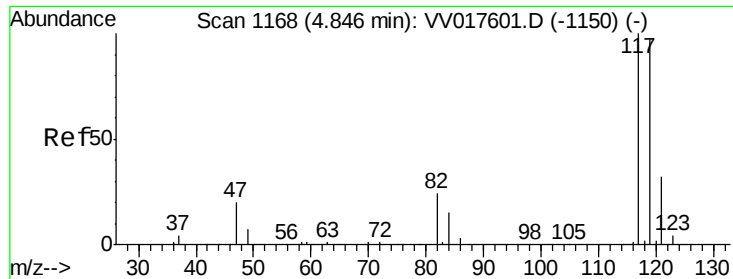
Tot Ion: 97 Resp: 121655
Ion Ratio Lower Upper
97 100
99 64.2 50.6 76.0
61 44.0 35.7 53.5



#30
Cyclohexane
Concen: 4.449 ug/L
RT: 4.70 min Scan# 1122
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Tgt Ion: 56 Resp: 88640
Ion Ratio Lower Upper
56 100
69 32.2 25.4 38.2
84 92.0 73.0 109.4





#31

Carbon tetrachloride

Concen: 4.838 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.01 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

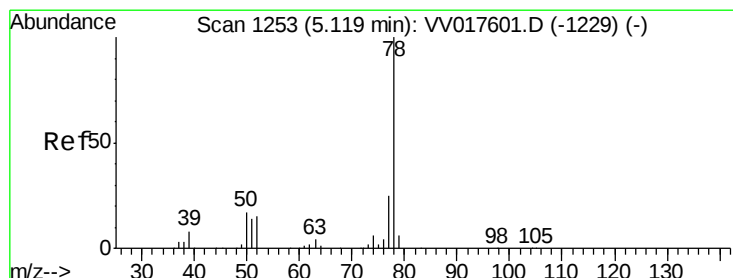
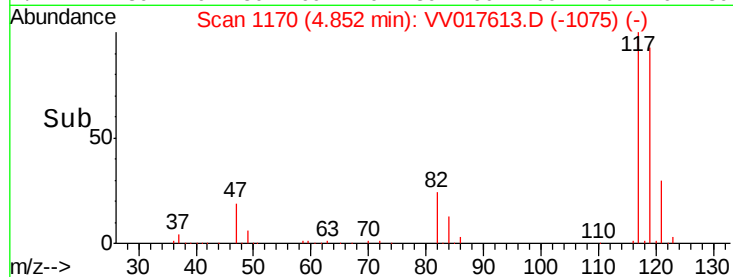
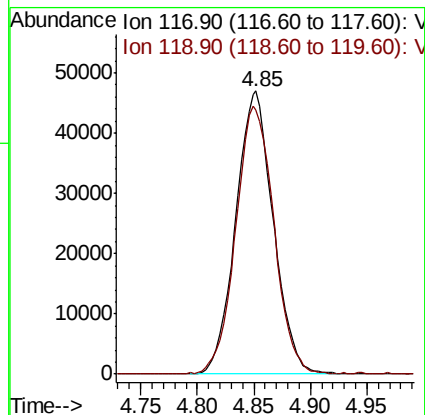
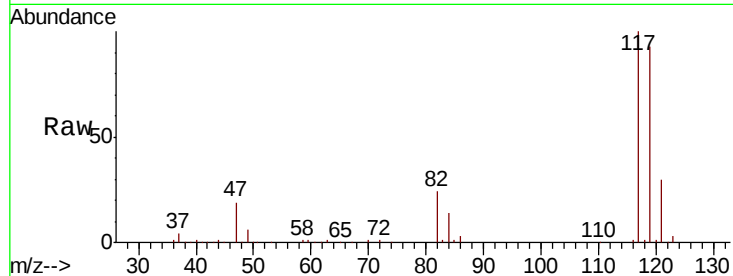
VSTD00554

Tot Ion:117 Resp: 108221

Ion Ratio Lower Upper

117 100

119 96.5 76.9 115.3



#33

Benzene

Concen: 4.955 ug/L

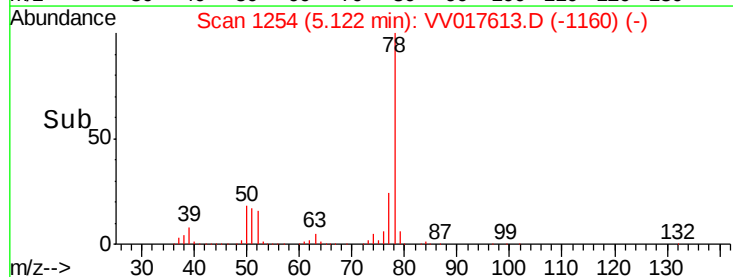
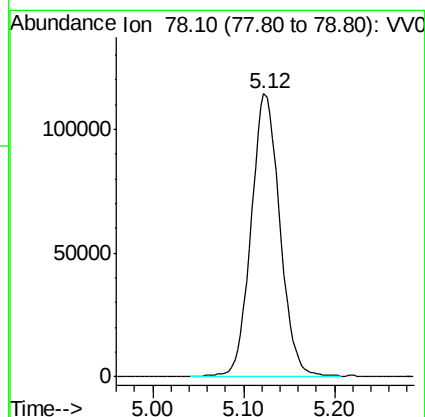
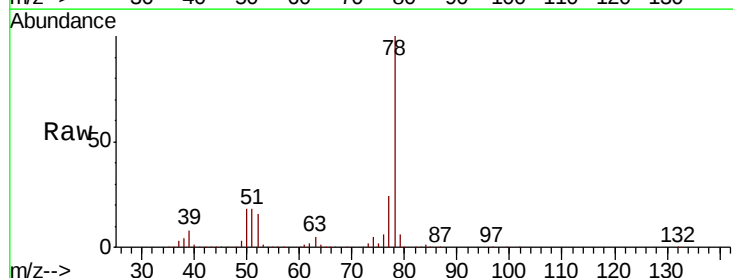
RT: 5.12 min Scan# 1254

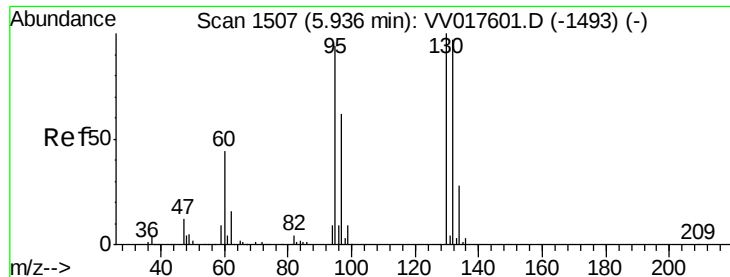
Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Tgt Ion: 78 Resp: 252107





#34

Trichloroethene

Concen: 4.920 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

Tot Ion: 95 Resp: 69916

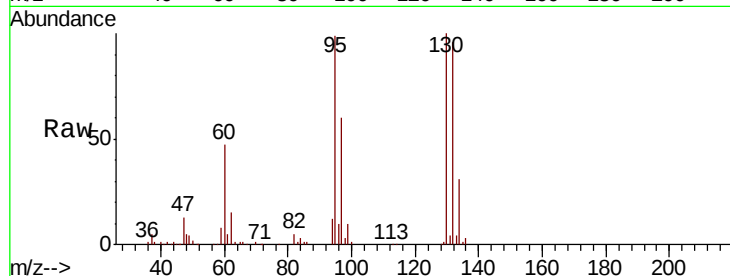
Ion Ratio Lower Upper

95 100

97 60.8 46.1 85.5

132 97.8 71.7 133.1

130 101.5 74.3 137.9

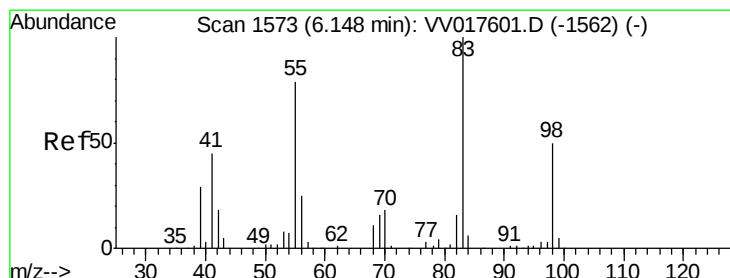
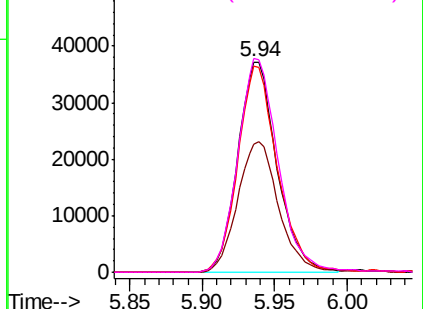
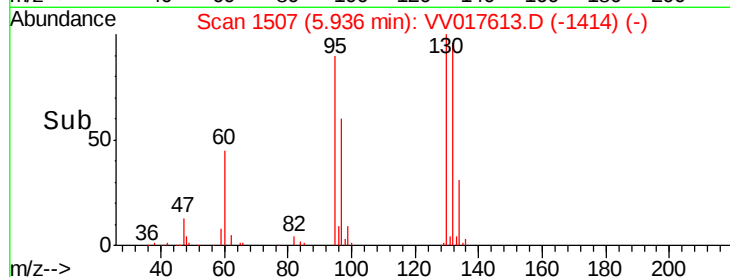


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.431 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

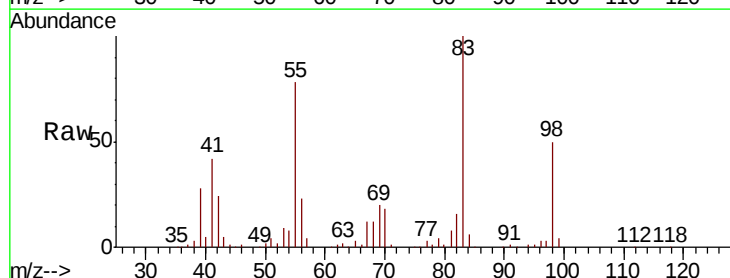
Tgt Ion: 83 Resp: 95264

Ion Ratio Lower Upper

83 100

55 78.2 61.8 92.8

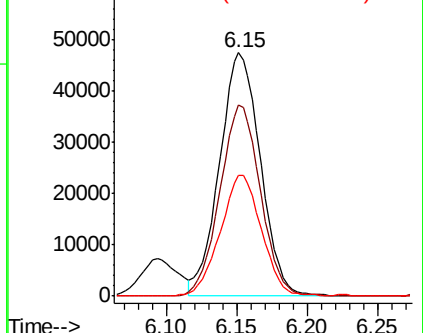
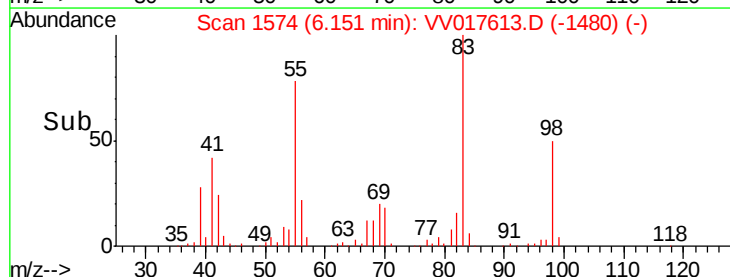
98 50.4 39.0 58.6

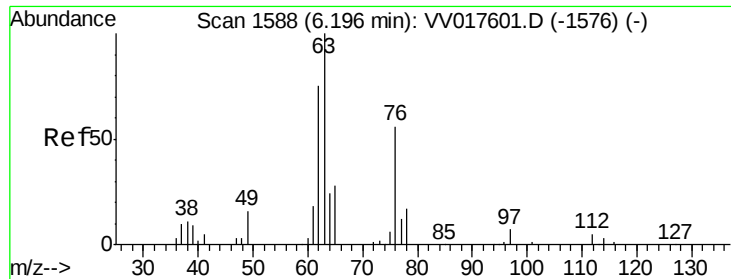


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

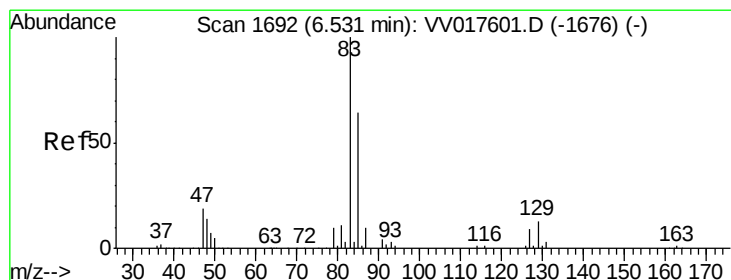
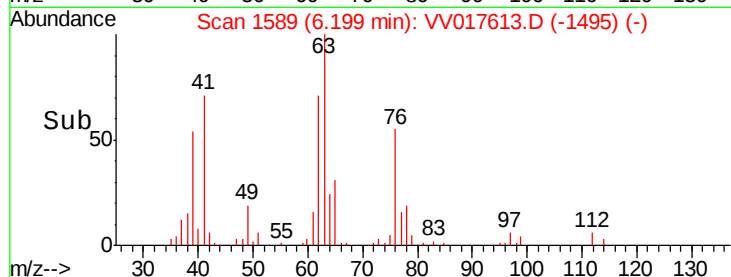
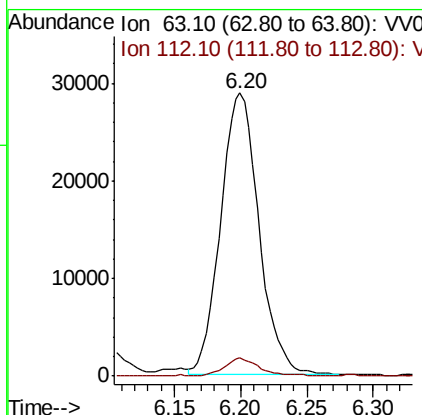
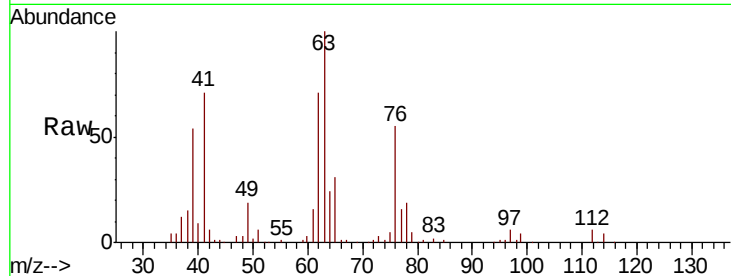




#37
 1,2-Dichloropropane
 Concen: 4.849 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

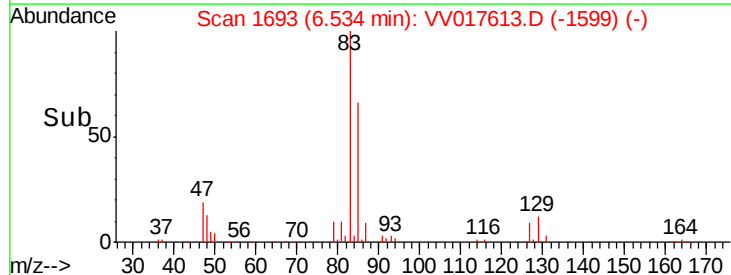
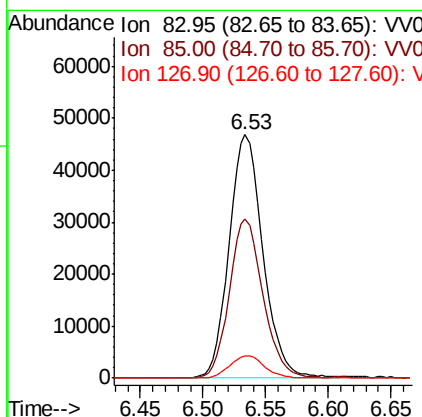
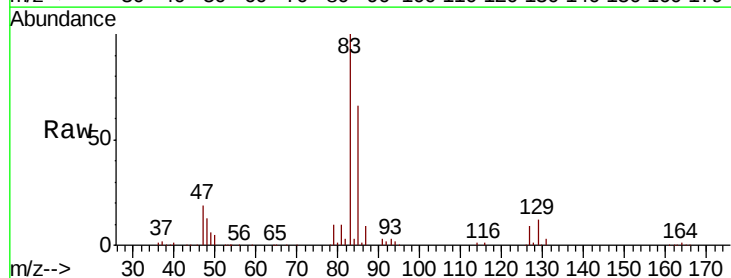
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

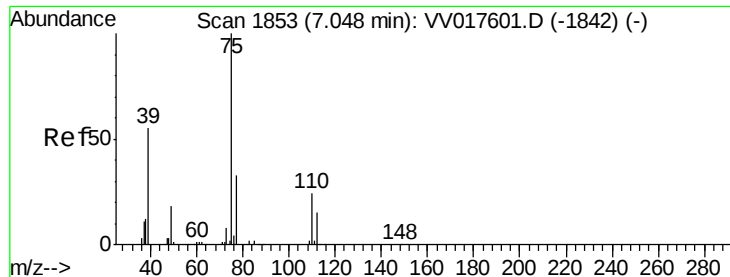
Tot Ion: 63 Resp: 57983
 Ion Ratio Lower Upper
 63 100
 112 5.8 4.5 6.7



#38
 Bromodichloromethane
 Concen: 4.987 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion: 83 Resp: 87720
 Ion Ratio Lower Upper
 83 100
 85 65.5 44.7 83.1
 127 9.2 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 4.990 ug/L

RT: 7.05 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampled :

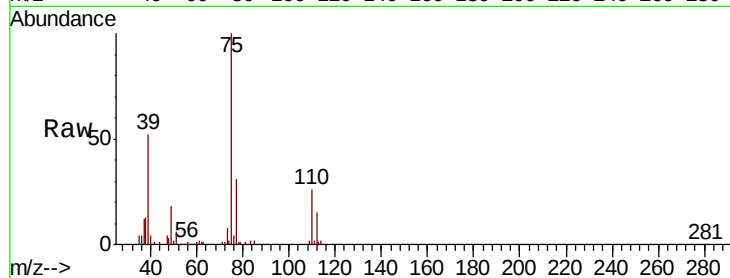
VSTD00554

Tot Ion: 75 Resp: 89989

Ion Ratio Lower Upper

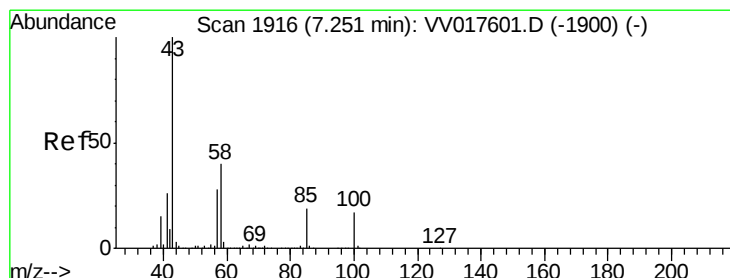
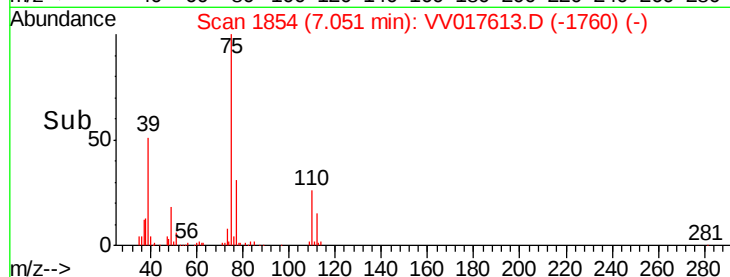
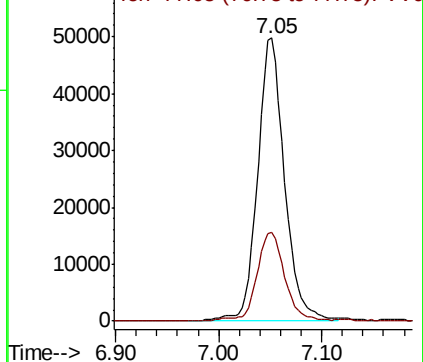
75 100

77 31.2 23.2 43.2



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: 50.829 ug/L

RT: 7.25 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

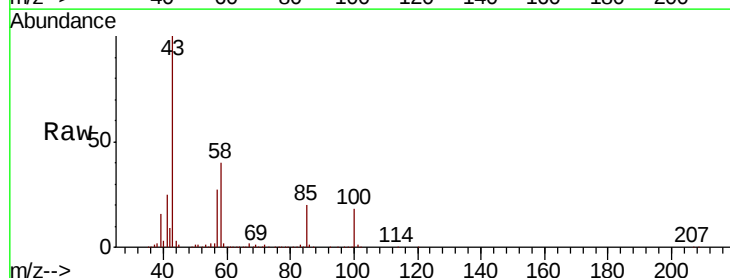
Tgt Ion: 43 Resp: 333241

Ion Ratio Lower Upper

43 100

58 39.5 31.2 46.8

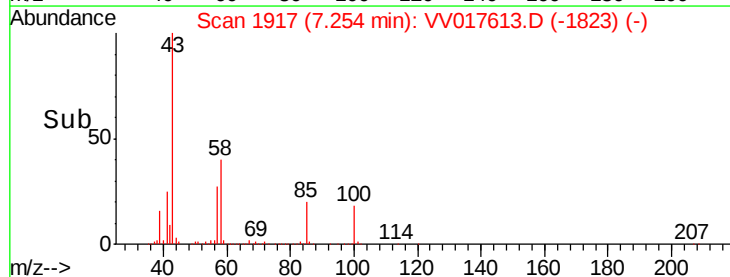
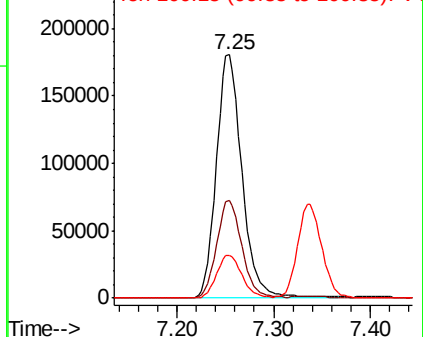
100 17.3 13.6 20.4

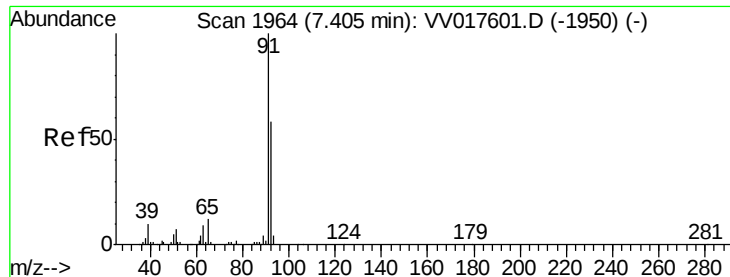


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.048 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

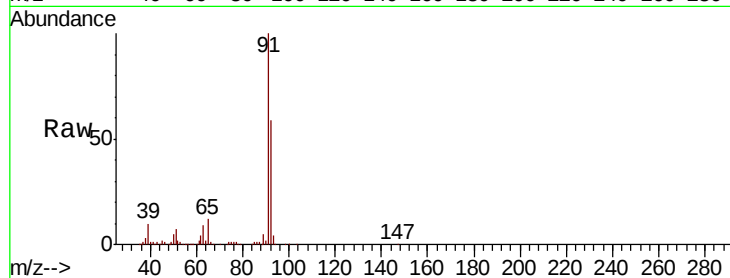
VSTD00554

Tot Ion: 91 Resp: 280156

Ion Ratio Lower Upper

91 100

92 59.3 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV017601.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV017601.D (-1950) (-)

7.41

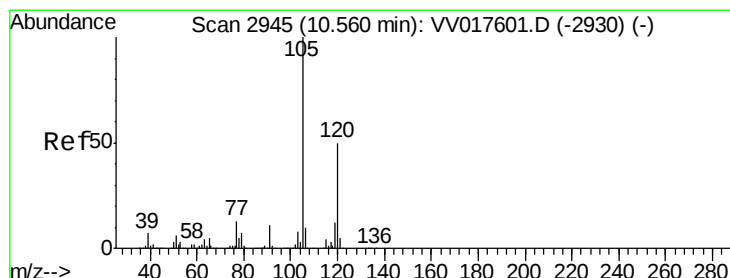
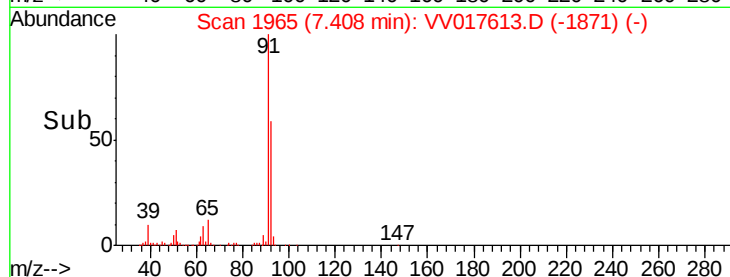
150000

100000

50000

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 5.066 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV017613.D

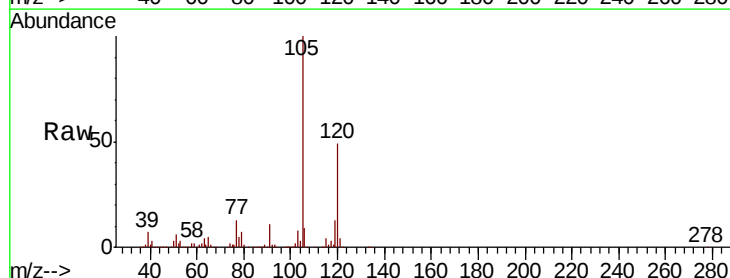
Acq: 23 Jul 2020 19:27

Tgt Ion: 105 Resp: 262540

Ion Ratio Lower Upper

105 100

120 49.1 39.4 59.2



Abundance Ion 105.00 (104.70 to 105.70): VV017601.D (-2930) (-)

Ion 120.00 (119.70 to 120.70): VV017601.D (-2930) (-)

10.56

200000

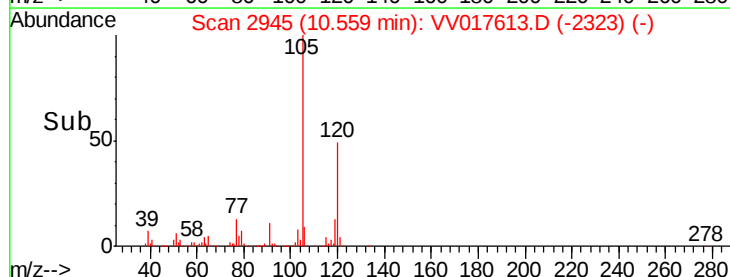
150000

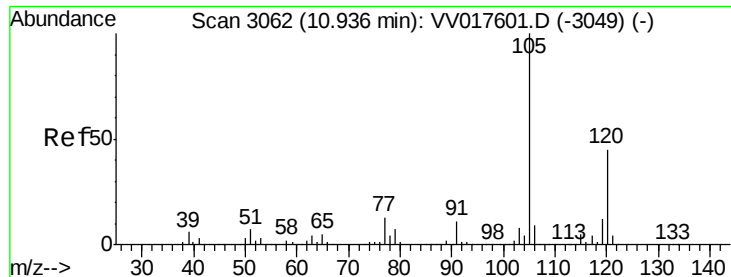
100000

50000

0

Time-->

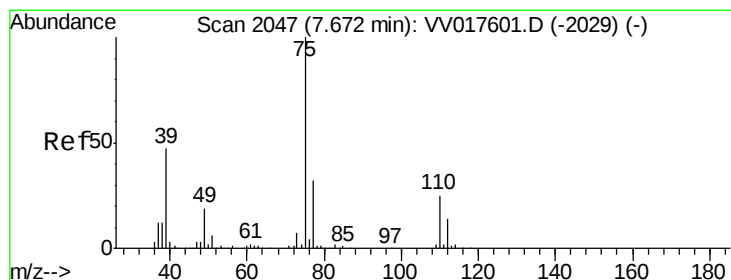
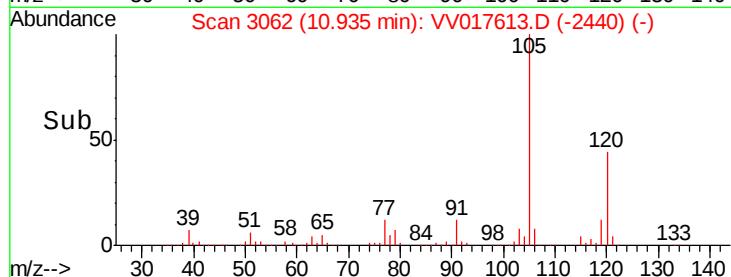
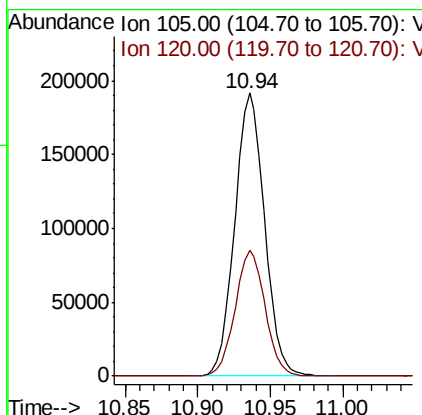
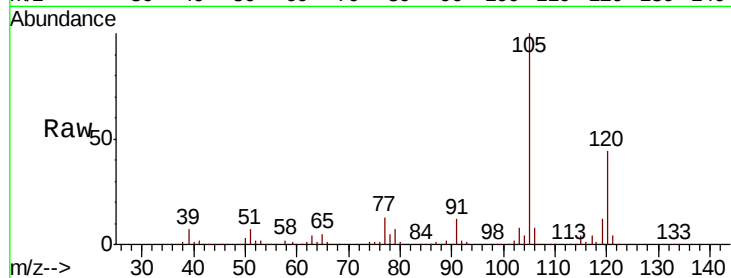




#44
 1,2,4-Trimethylbenzene
 Concen: 5.171 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

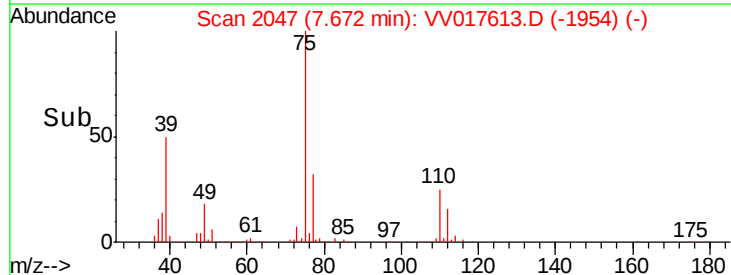
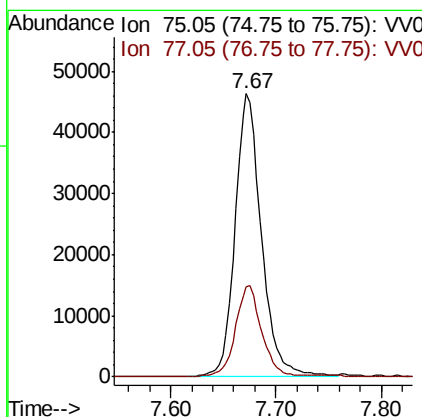
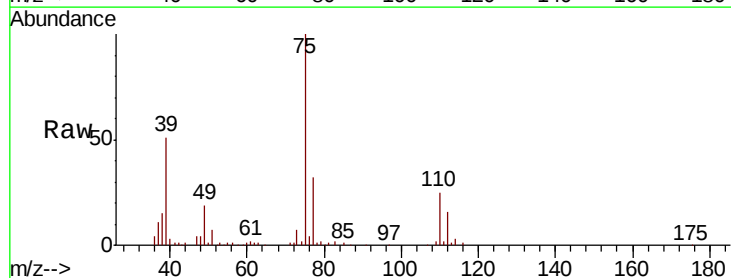
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

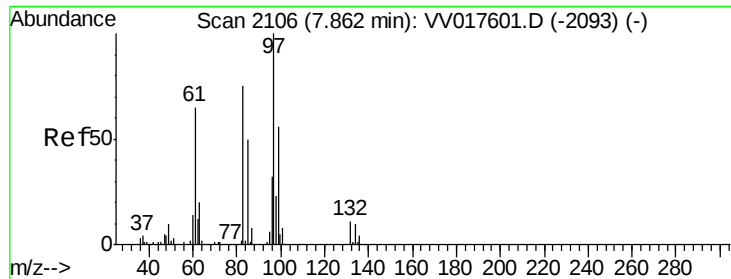
Tot Ion:105 Resp: 273812
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.9 53.9



#46
 trans-1,3-Dichloropropene
 Concen: 4.958 ug/L
 RT: 7.67 min Scan# 2047
 Delta R.T. -0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion: 75 Resp: 80284
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.5 41.7

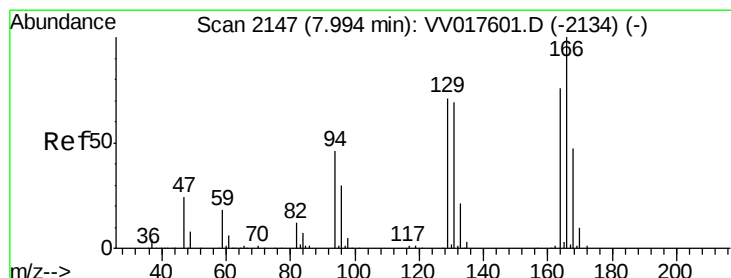
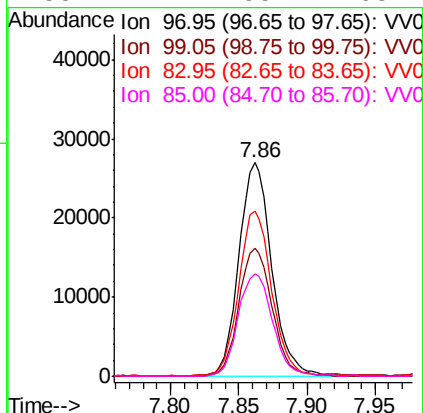
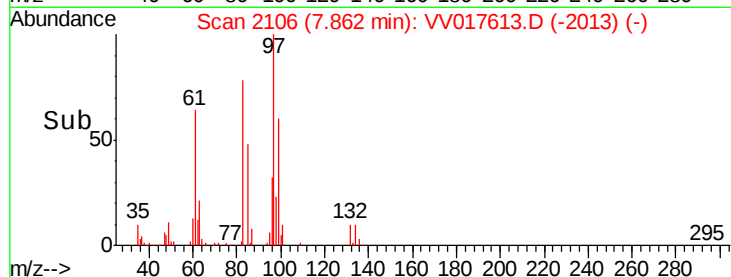
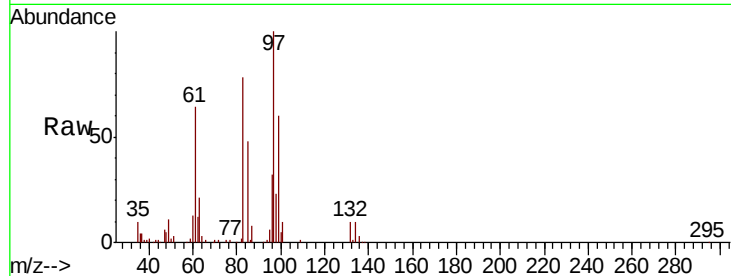




#47
 1,1,2-Trichloroethane
 Concen: 4.986 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. -0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

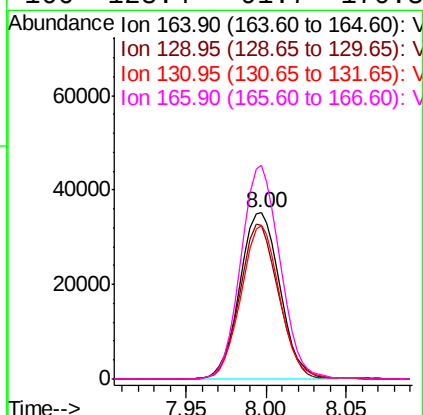
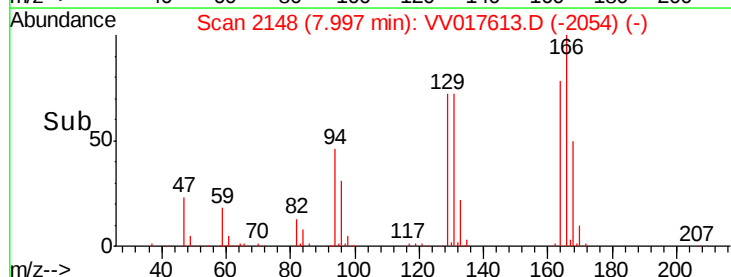
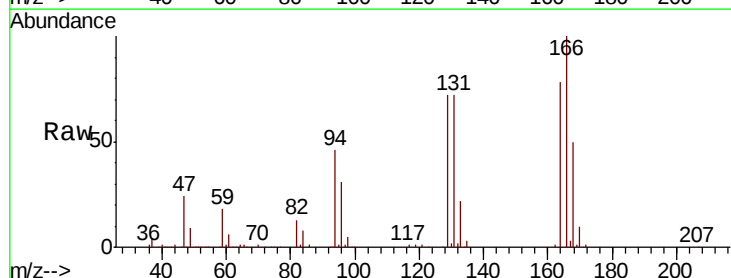
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

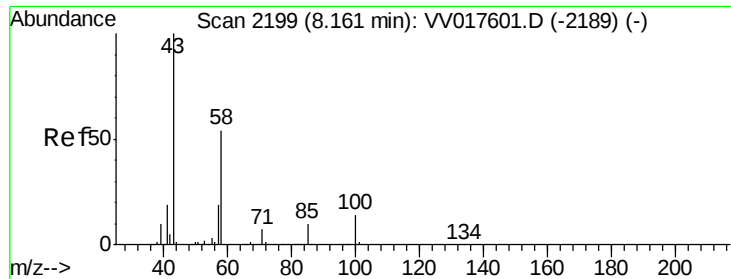
Tot Ion:	97	Resp:	45216
Ion	Ratio	Lower	Upper
97	100		
99	59.9	39.5	73.4
83	77.6	52.6	97.6
85	47.7	35.1	65.1



#49
 Tetrachloroethene
 Concen: 4.812 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion:	164	Resp:	60296
Ion	Ratio	Lower	Upper
164	100		
129	92.7	65.0	120.8
131	92.4	63.6	118.2
166	128.4	91.7	170.3

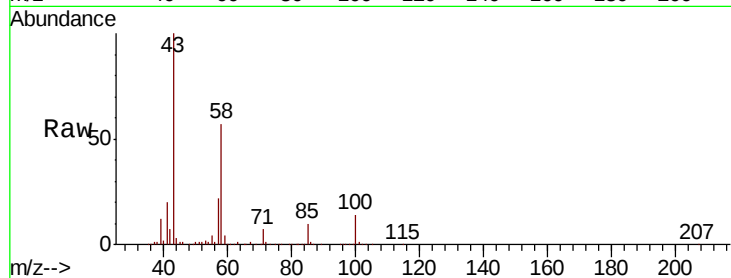




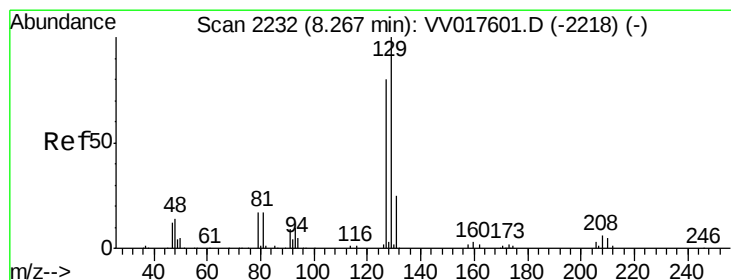
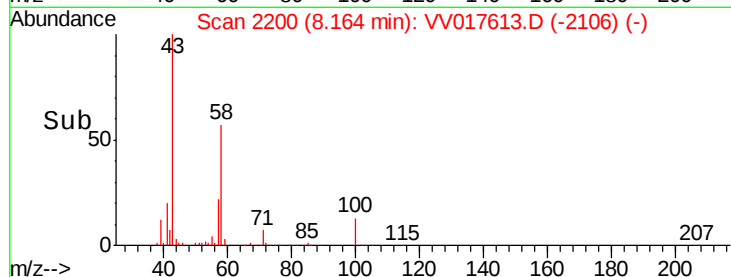
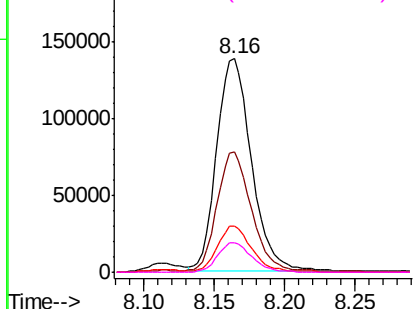
#50
2-Hexanone
Concen: 50.946 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Tot Ion: 43 Resp: 236333
Ion Ratio Lower Upper
43 100
58 56.2 41.6 62.4
57 21.7 15.4 23.0
100 13.8 11.2 16.8

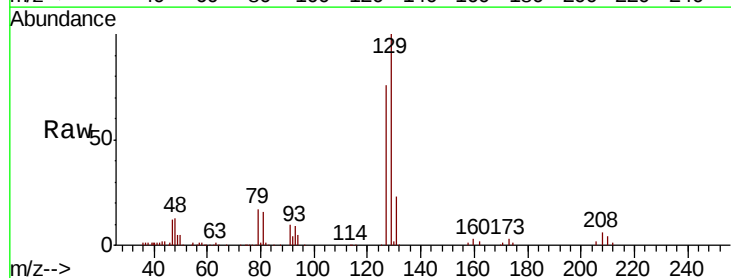


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

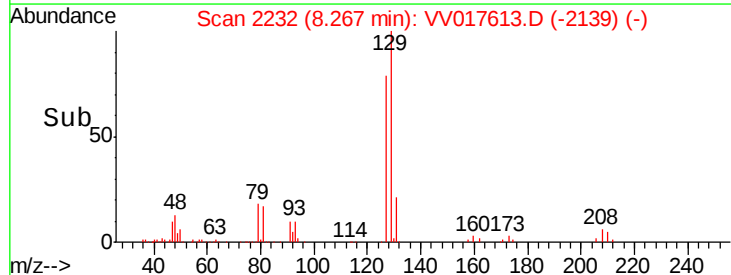
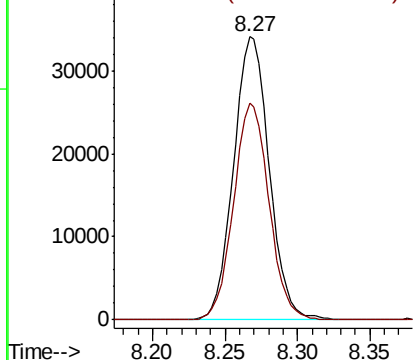


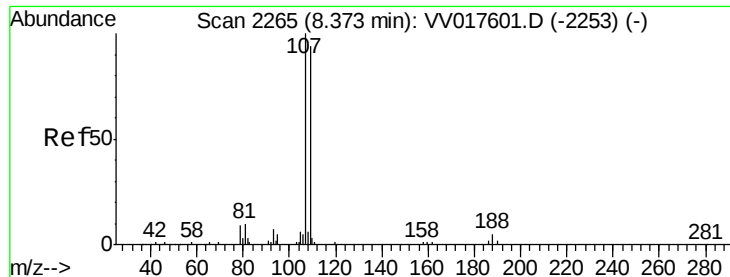
#51
Dibromochloromethane
Concen: 5.042 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Tgt Ion: 129 Resp: 58191
Ion Ratio Lower Upper
129 100
127 76.4 56.3 104.5



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





#52

1,2-Dibromoethane

Concen: 4.854 ug/L

RT: 8.38 min Scan# 2266

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

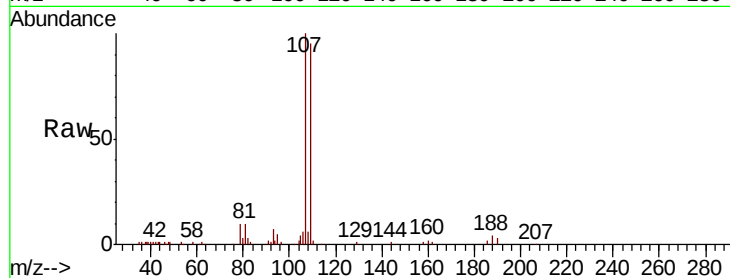
Tot Ion:107 Resp: 41537

Ion Ratio Lower Upper

107 100

109 94.9 65.5 121.7

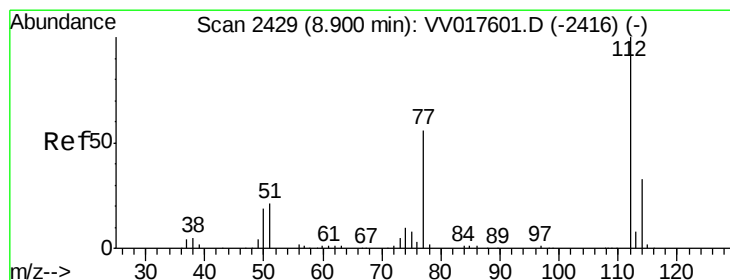
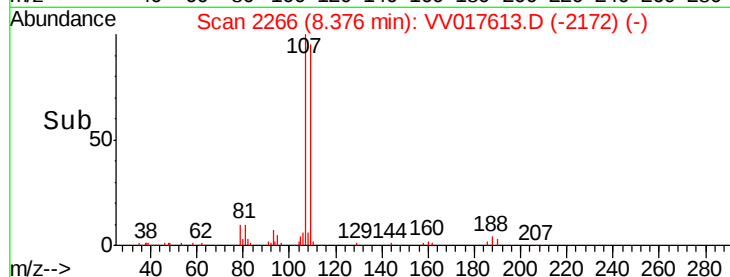
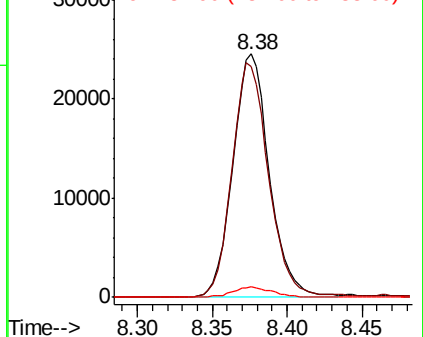
188 4.3 3.7 5.5



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#53

Chlorobenzene

Concen: 4.951 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

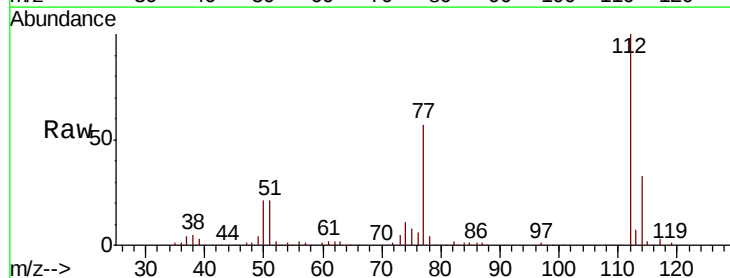
Tgt Ion:112 Resp: 183202

Ion Ratio Lower Upper

112 100

114 32.6 23.2 43.2

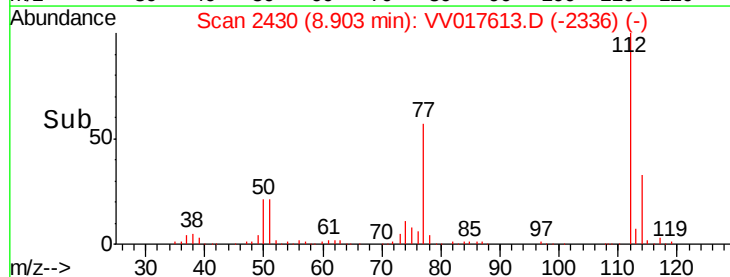
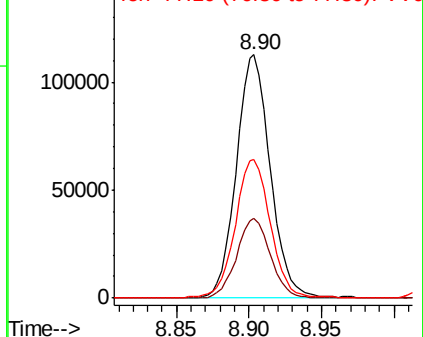
77 56.8 45.6 68.4

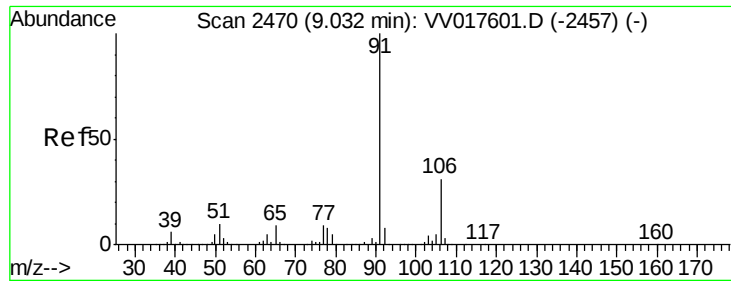


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#54

Ethylbenzene

Concen: 4.940 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

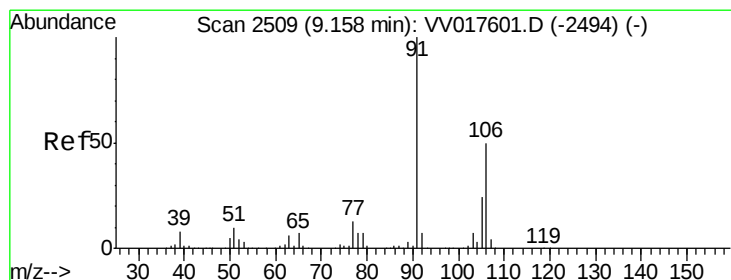
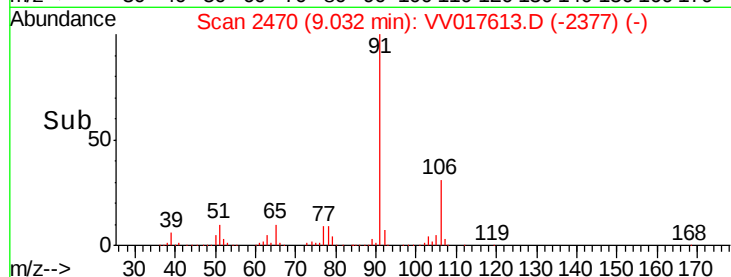
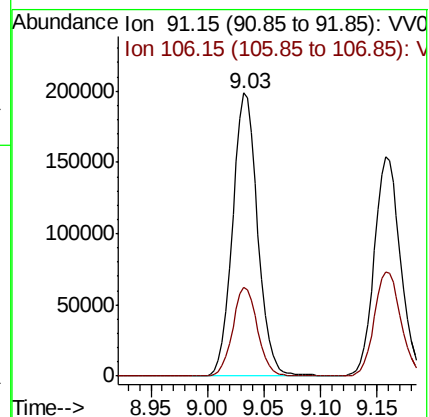
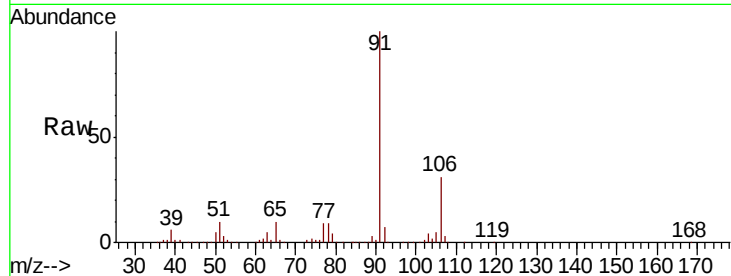
VSTD00554

Tot Ion: 91 Resp: 306964

Ion Ratio Lower Upper

91 100

106 31.4 21.6 40.2



#55

m,p-xylene

Concen: 5.107 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017613.D

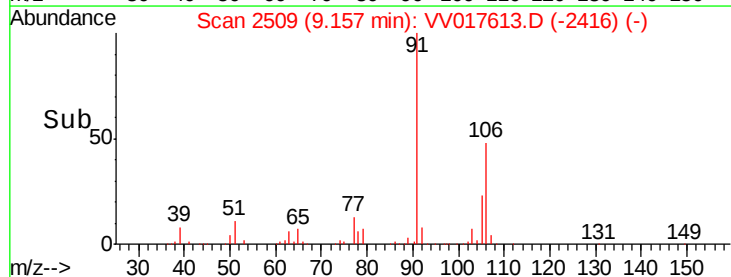
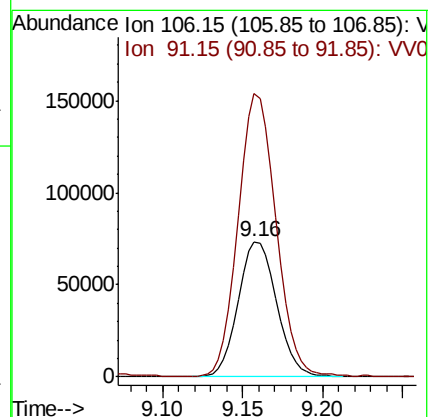
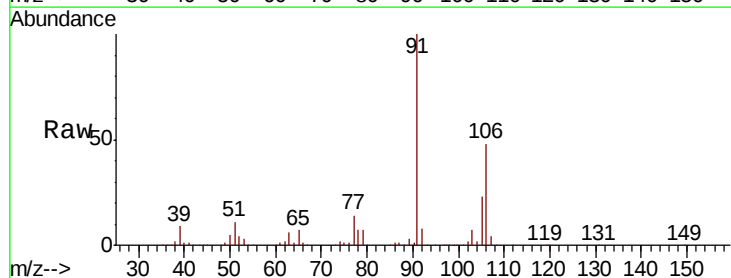
Acq: 23 Jul 2020 19:27

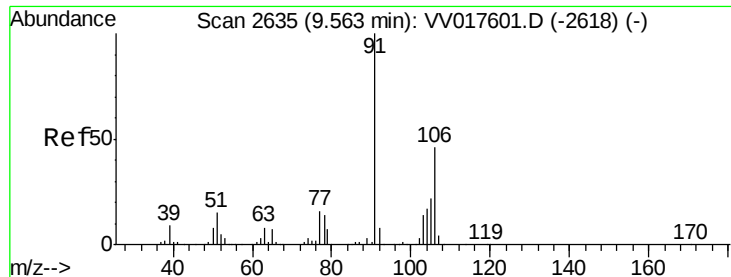
Tgt Ion: 106 Resp: 119532

Ion Ratio Lower Upper

106 100

91 209.4 141.3 262.3

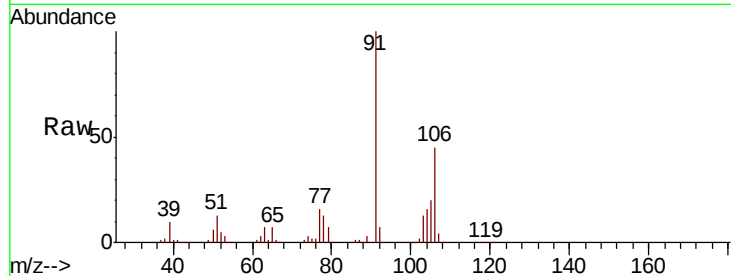




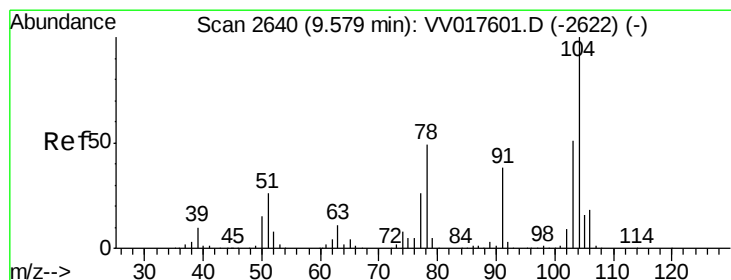
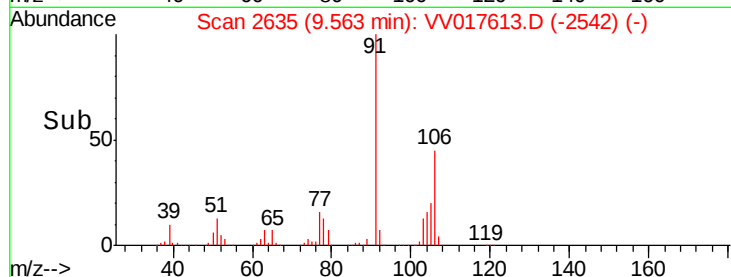
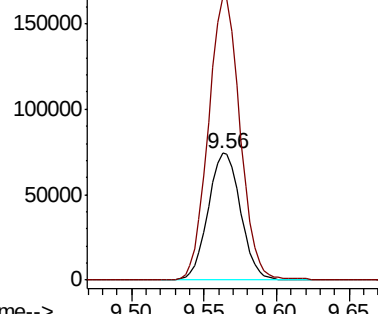
#56
o-xylene
Concen: 5.084 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD00554

Tot Ion:106 Resp: 115455
Ion Ratio Lower Upper
106 100
91 223.6 153.9 285.7

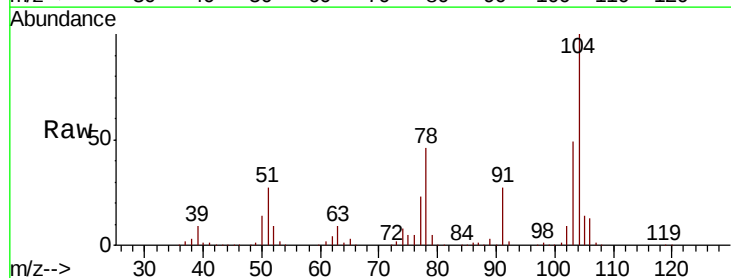


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

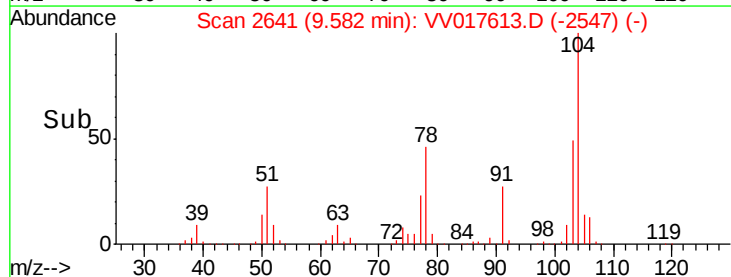
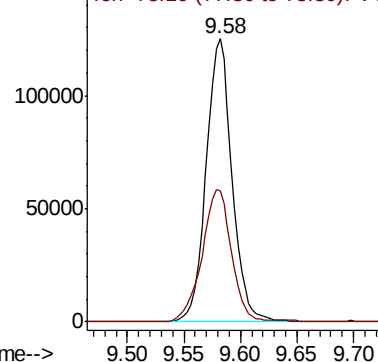


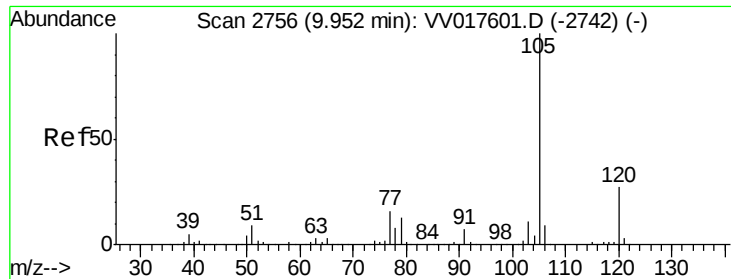
#57
Styrene
Concen: 5.258 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. 0.00 min
Lab File: VV017613.D
Acq: 23 Jul 2020 19:27

Tgt Ion:104 Resp: 199279
Ion Ratio Lower Upper
104 100
78 46.3 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#58

Isopropylbenzene

Concen: 5.058 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampled :

VSTD00554

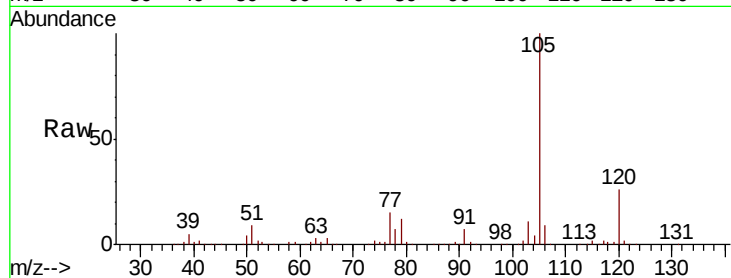
Tot Ion:105 Resp: 316920

Ion Ratio Lower Upper

105 100

120 25.8 21.1 31.7

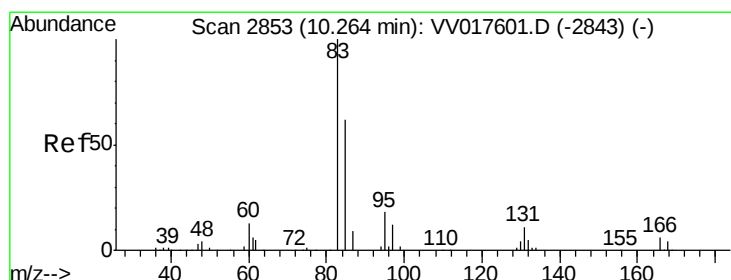
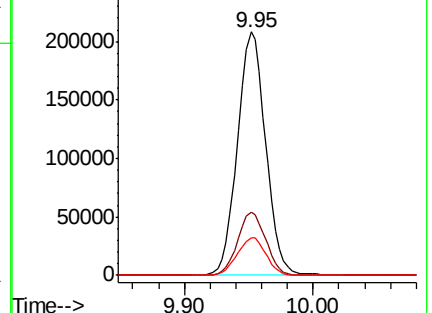
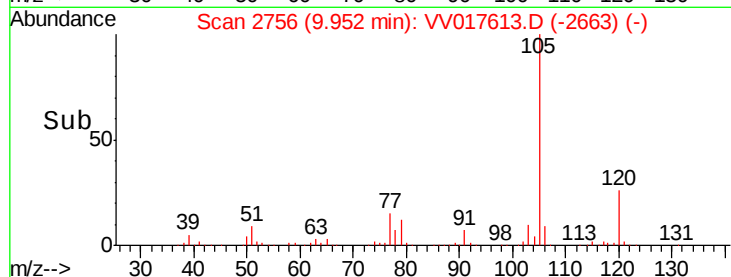
77 15.9 13.0 19.6



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



#60

1,1,2,2-Tetrachloroethane

Concen: 4.886 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

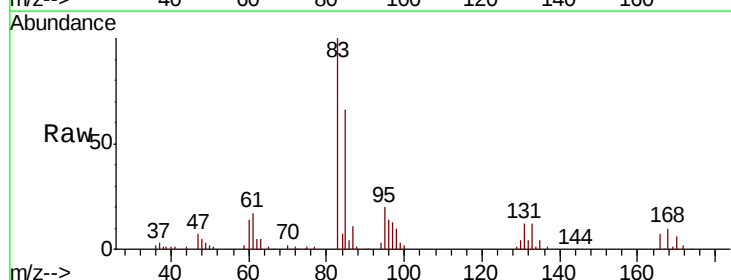
Tgt Ion: 83 Resp: 48275

Ion Ratio Lower Upper

83 100

85 65.9 44.4 82.5

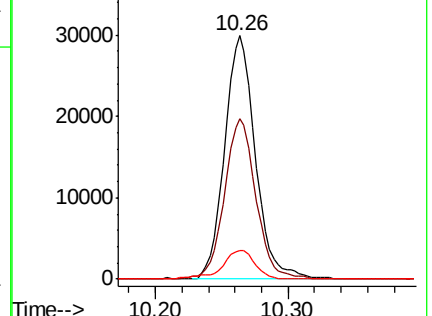
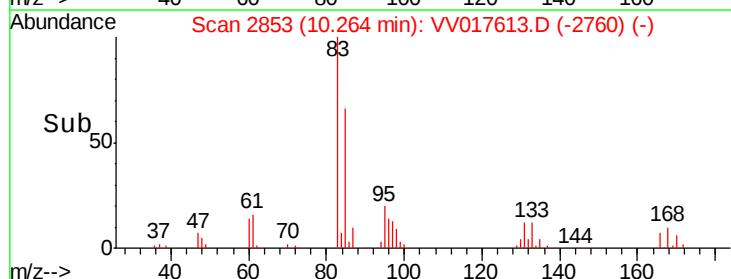
131 11.8 9.2 13.8

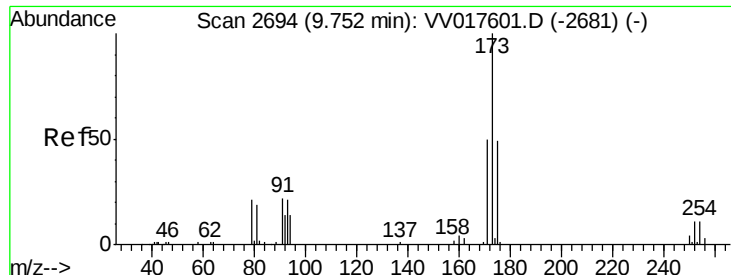


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#62

Bromoform

Concen: 4.970 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampled :

VSTD00554

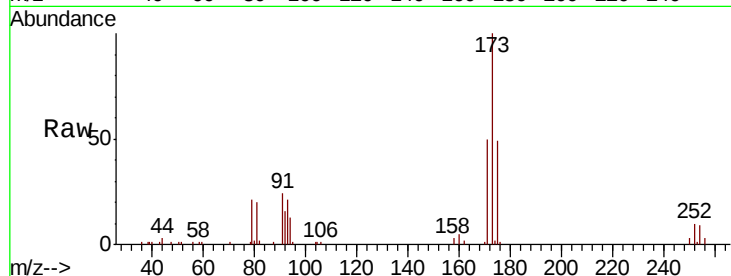
Tot Ion:173 Resp: 32464

Ion Ratio Lower Upper

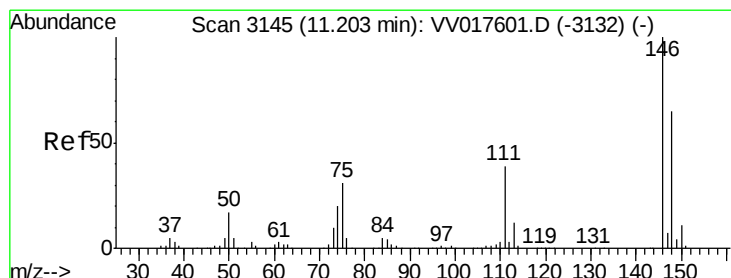
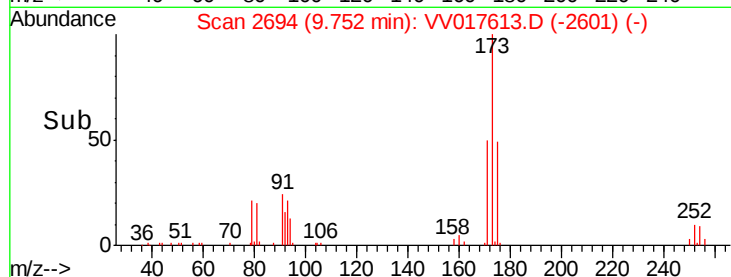
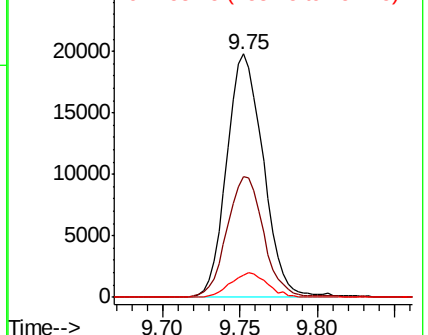
173 100

175 49.4 39.6 59.4

254 10.1 8.4 12.6



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#63

1,3-Dichlorobenzene

Concen: 4.884 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

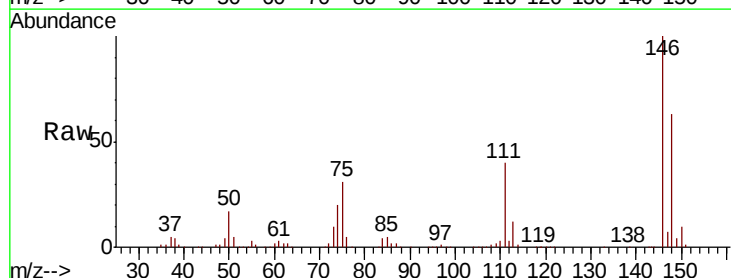
Tgt Ion:146 Resp: 160502

Ion Ratio Lower Upper

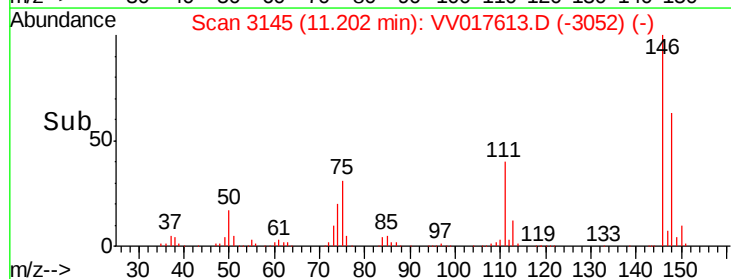
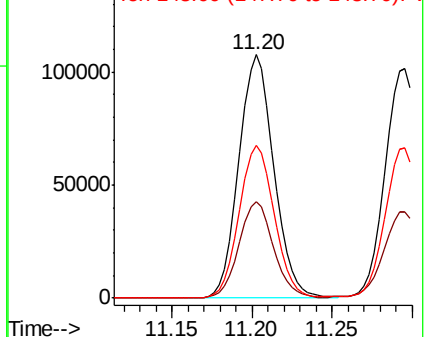
146 100

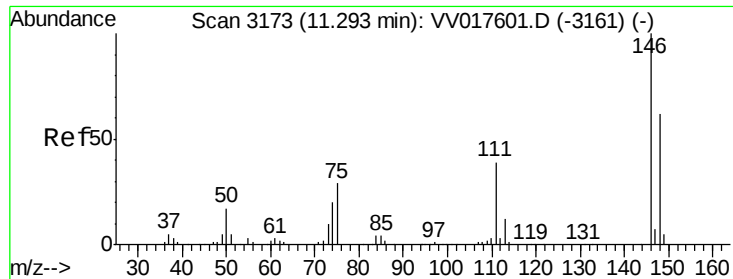
111 39.8 27.3 50.7

148 62.5 45.6 84.6



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 4.798 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

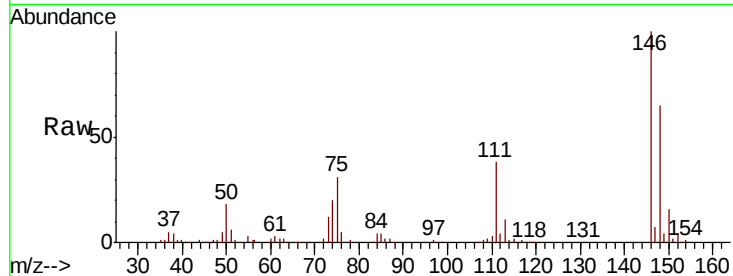
Tot Ion:146 Resp: 158212

Ion Ratio Lower Upper

146 100

111 37.8 27.4 51.0

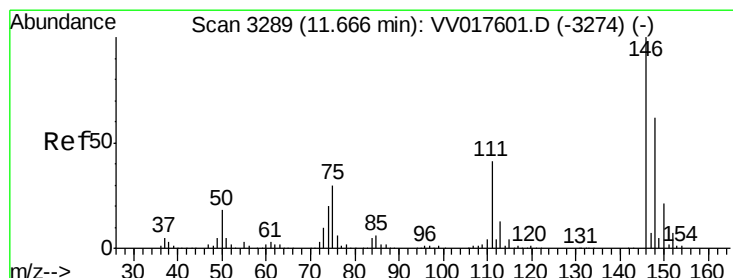
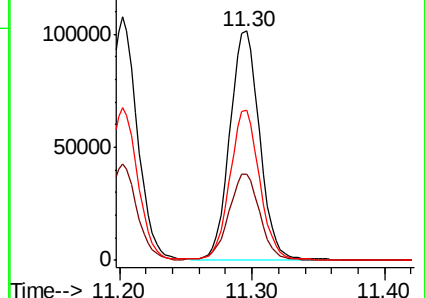
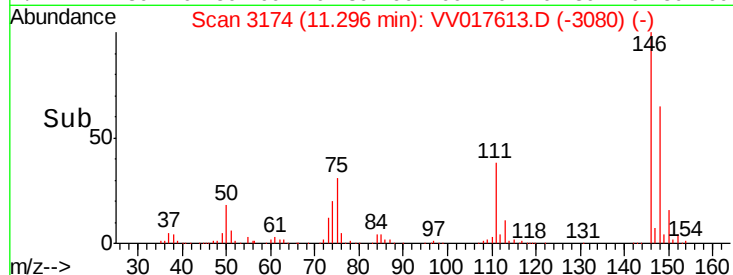
148 65.3 43.8 81.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 4.887 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

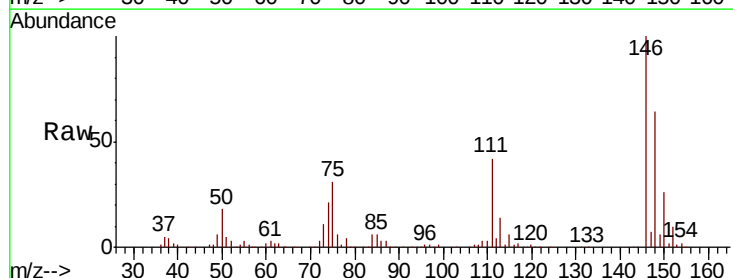
Tgt Ion:146 Resp: 146288

Ion Ratio Lower Upper

146 100

111 42.0 33.0 49.4

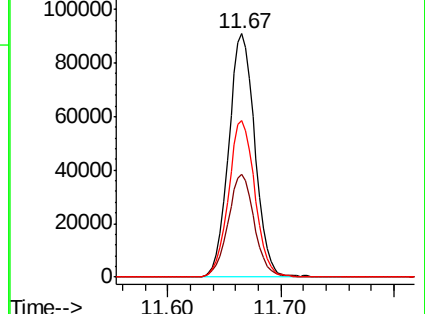
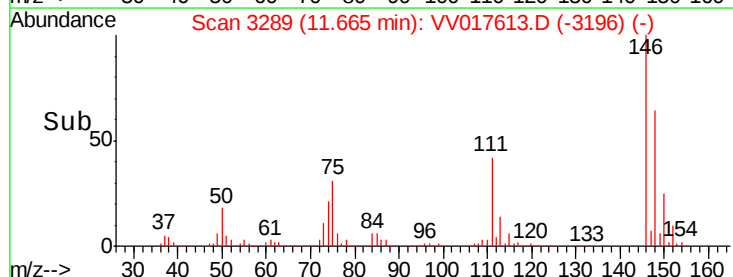
148 64.4 49.9 74.9

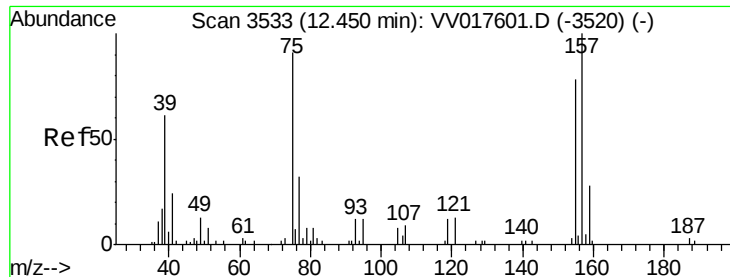


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dibromo-3-chloropropane

Concen: 5.213 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD00554

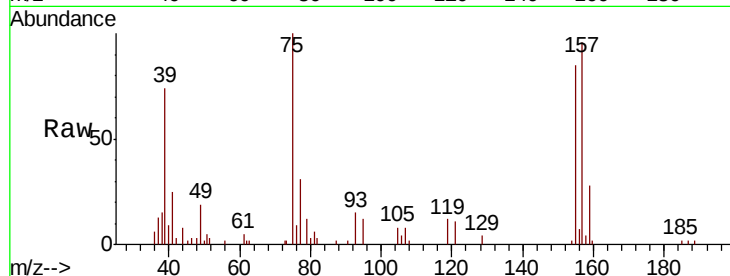
Tot Ion: 75 Resp: 9758

Ion Ratio Lower Upper

75 100

155 84.7 68.7 103.1

157 95.6 87.8 131.8



Abundance Ion 75.05 (74.75 to 75.75): VV017613.D (-3440) (-)

8000

Ion 154.95 (154.65 to 155.65): VV017613.D (-3440) (-)

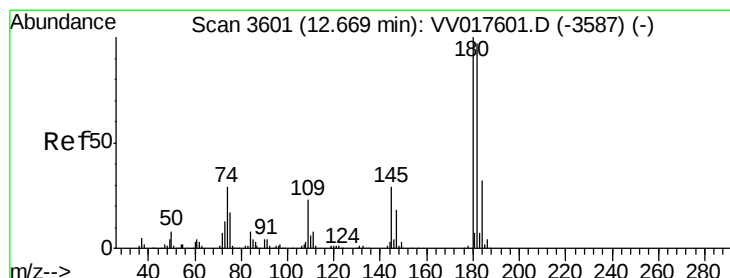
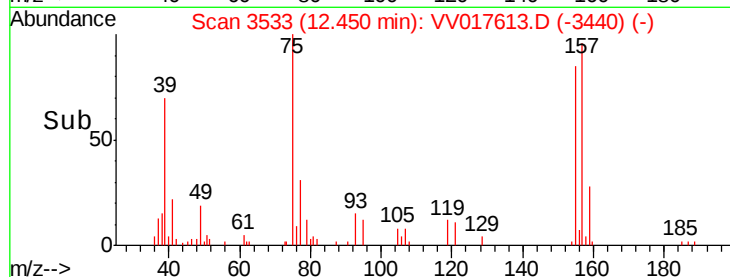
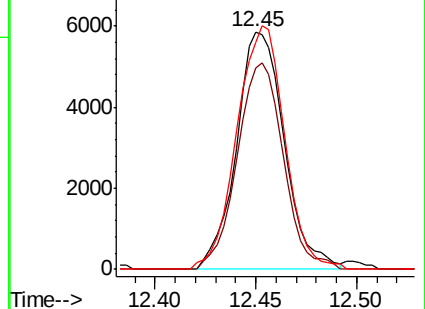
6000

Ion 156.90 (156.60 to 157.60): VV017613.D (-3440) (-)

4000

2000

0



#68

1,3,5-Trichlorobenzene

Concen: 4.855 ug/L

RT: 12.67 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VV017613.D

Acq: 23 Jul 2020 19:27

Tgt Ion: 180 Resp: 129596

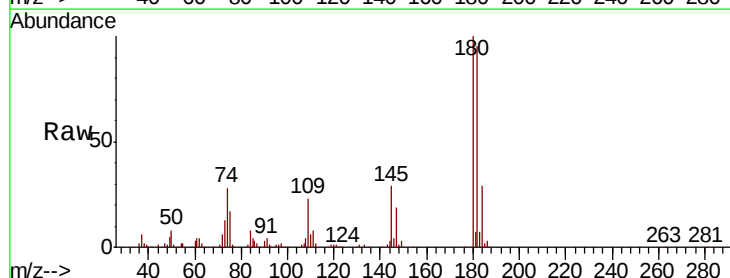
Ion Ratio Lower Upper

180 100

182 93.8 77.1 115.7

184 29.3 25.2 37.8

145 29.2 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): VV017613.D (-3508) (-)

120000

Ion 182.00 (181.70 to 182.70): VV017613.D (-3508) (-)

100000

Ion 184.00 (183.70 to 184.70): VV017613.D (-3508) (-)

80000

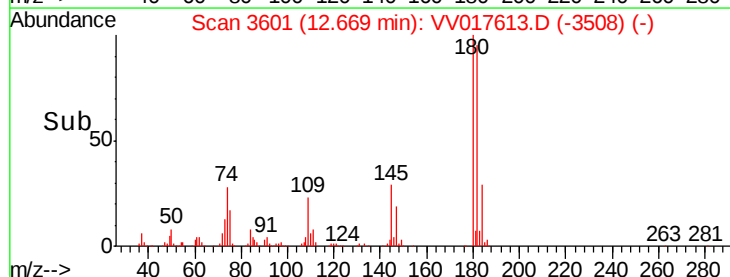
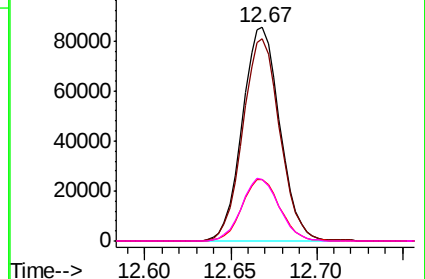
Ion 145.00 (144.70 to 145.70): VV017613.D (-3508) (-)

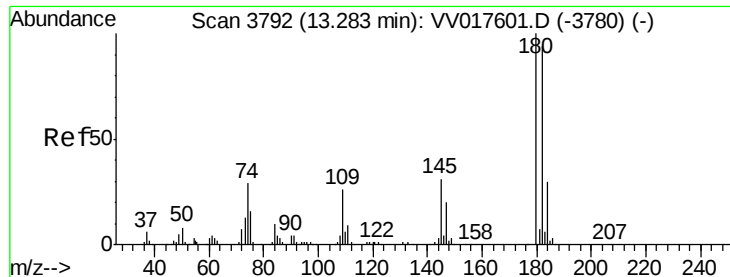
60000

40000

20000

0

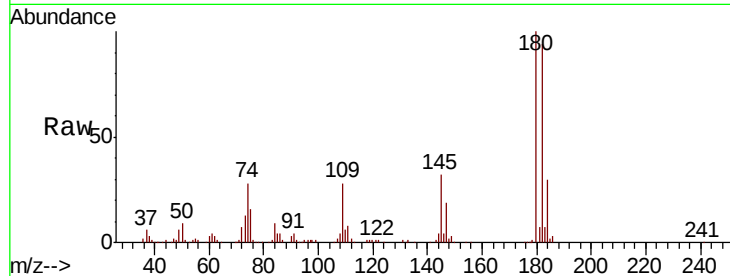




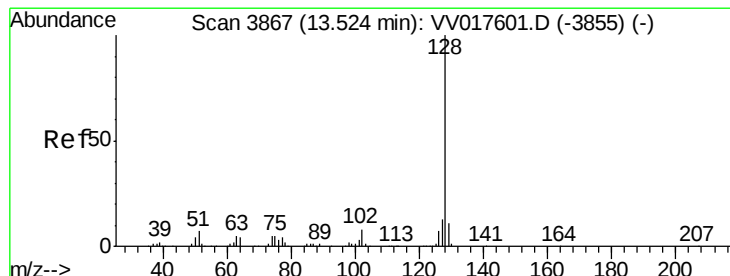
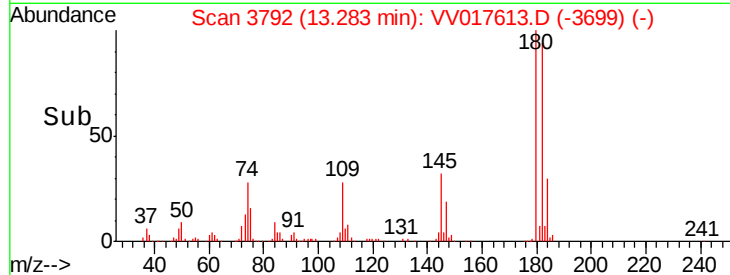
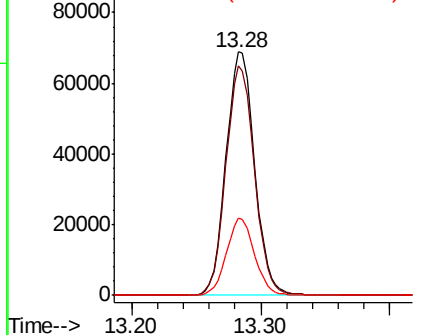
#69
 1,2,4-trichlorobenzene
 Concen: 4.744 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.4	113.2
145	31.0	24.2	36.2

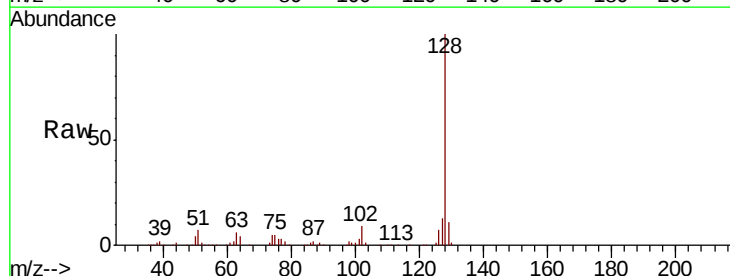


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

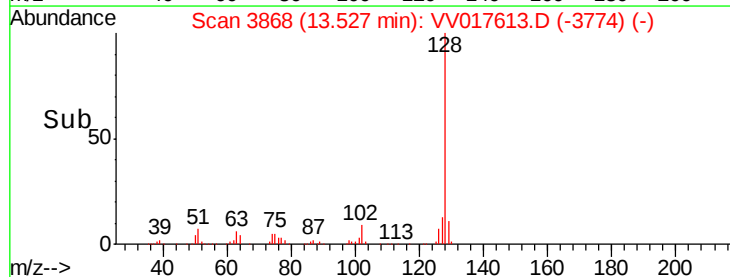
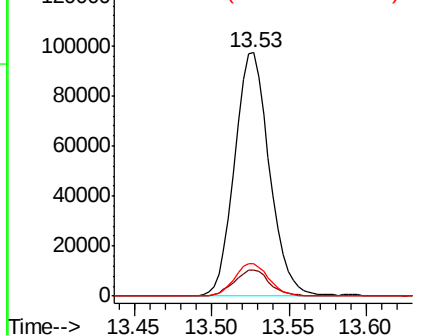


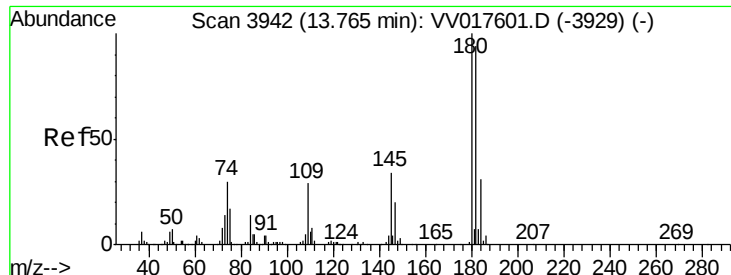
#70
 Naphthalene
 Concen: 4.894 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	13.2	11.0	16.6



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





#71
 1,2,3-Trichlorobenzene
 Concen: 4.693 ug/L
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VV017613.D
 Acq: 23 Jul 2020 19:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00554

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	74.2	111.4
145	33.6	26.0	39.0

