

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082620\
 Data File : VW016377.D
 Acq On : 26 Aug 2020 19:08
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Quant Time: Aug 27 02:45:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM082420S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 27 02:40:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	267727	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	251989	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	127919	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	54611	19.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.40%
7) Chloroethane-d5	2.89	69	45232	20.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.40%
10) 1,1-Dichloroethene-d2	4.03	63	149003	21.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.76%
20) 2-Butanone-d5	7.07	46	37817	46.52	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.04%
24) Chloroform-d	7.65	84	172052	24.65	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	8.31	65	89792	24.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.84%
29) Benzene-d6	8.27	84	323959	23.03	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.12%
33) 1,2-Dichloropropane-d6	9.28	67	90022	23.12	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.48%
37) Toluene-d8	10.33	98	313874	23.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.60%
38) trans-1,3-Dichloropropene-	10.58	79	44099	23.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.88%
39) 2-Hexanone-d5	10.93	63	27877	44.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.40%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	79910	24.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.64%
61) 1,2-Dichlorobenzene-d4	13.85	152	111245	22.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	68680	23.347	ug/L 98
3) Chloromethane	2.21	50	50225	21.867	ug/L 100
5) Vinyl chloride	2.36	62	74181	23.713	ug/L 99
6) Bromomethane	2.78	94	49700	24.302	ug/L 96
8) Chloroethane	2.92	64	43380	24.869	ug/L 89
9) Trichlorofluoromethane	3.26	101	85072	25.129	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	94870	25.673	ug/L 99
12) 1,1-Dichloroethene	4.04	96	89434	25.163	ug/L 96
13) Acetone	4.12	43	31464	46.636	ug/L 98
14) Carbon disulfide	4.39	76	255025	24.201	ug/L 99
15) Methyl Acetate	4.67	43	32876	24.219	ug/L 96
16) Methylene chloride	4.92	84	122396	24.730	ug/L 96
17) Methyl tert-butyl Ether	5.43	73	136382	26.243	ug/L 99
18) trans-1,2-Dichloroethene	5.43	96	95138	25.482	ug/L 96
19) 1,1-Dichloroethane	6.21	63	159524	25.932	ug/L 97
21) 2-Butanone	7.17	43	44803	46.610	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	103907	26.463	ug/L 94

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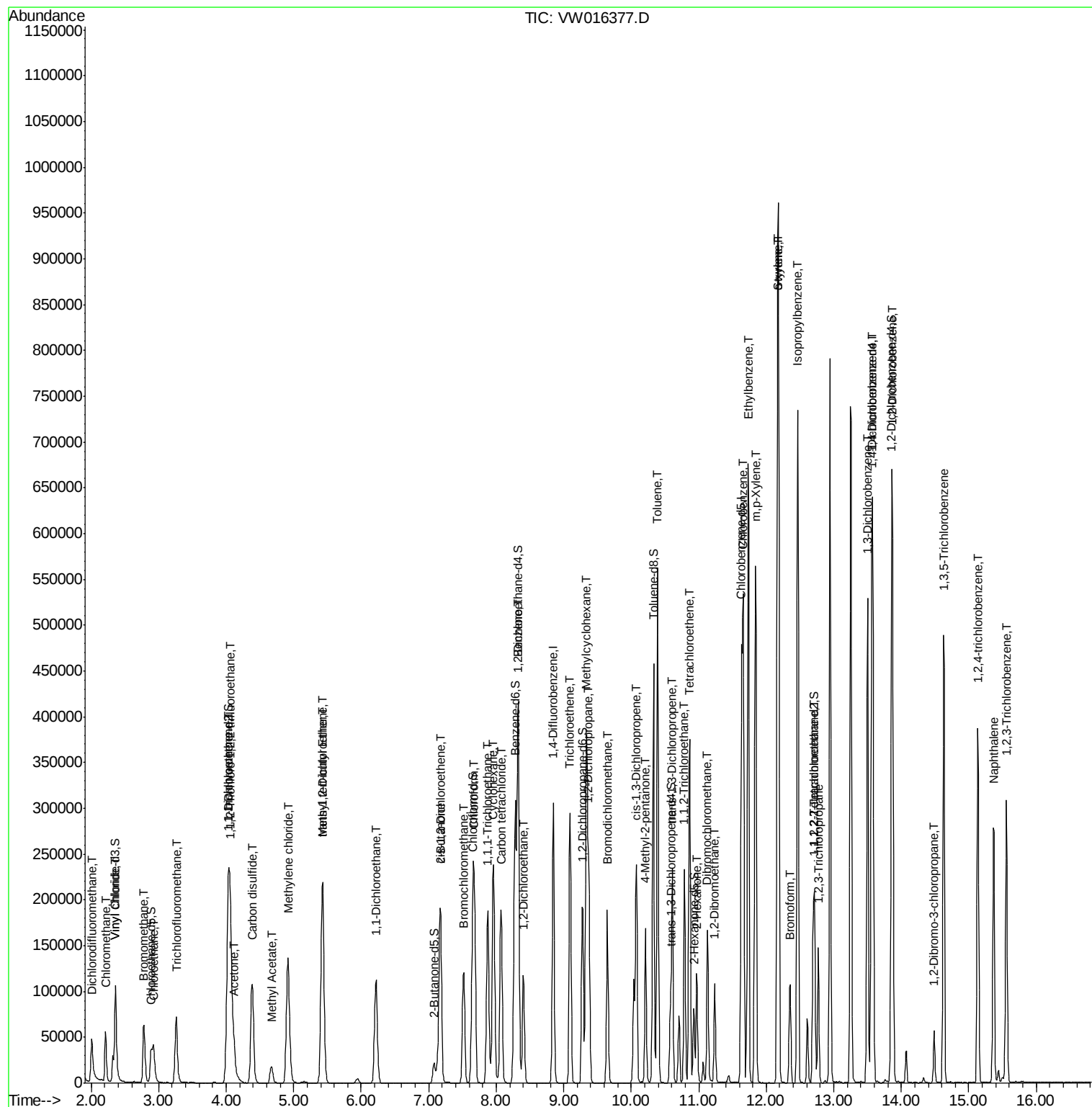
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	47843	26.564	ug/L	93
25) Chloroform	7.68	83	180050	27.178	ug/L	99
27) 1,2-Dichloroethane	8.40	62	114415	27.575	ug/L	100
30) Cyclohexane	7.96	56	131433	24.132	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	161008	26.566	ug/L	99
32) Carbon tetrachloride	8.07	117	150742	26.194	ug/L	98
34) Benzene	8.32	78	377275	26.102	ug/L	100
35) Trichloroethene	9.09	95	105147	25.693	ug/L	98
36) Methylcyclohexane	9.34	83	164225	24.582	ug/L	98
40) 1,2-Dichloropropane	9.37	63	87145	25.637	ug/L	99
41) Bromodichloromethane	9.65	83	131578	27.326	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	146320	26.290	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	98171	48.303	ug/L	99
44) Toluene	10.39	91	417854	26.546	ug/L	98
45) trans-1,3-Dichloropropene	10.61	75	130793	26.580	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	74264	26.470	ug/L	98
47) Tetrachloroethene	10.87	164	86482	26.798	ug/L	91
49) 2-Hexanone	10.97	43	67402	51.193	ug/L	99
50) Dibromochloromethane	11.13	129	94595	27.072	ug/L	98
51) 1,2-Dibromoethane	11.24	107	72528	26.410	ug/L	96
52) Chlorobenzene	11.66	112	280593	26.690	ug/L	94
53) Ethylbenzene	11.73	91	482538	26.666	ug/L	96
54) m,p-Xylene	11.84	106	185992	26.745	ug/L	98
55) o-xylene	12.17	106	175104	26.802	ug/L	98
56) Styrene	12.18	104	305904	27.826	ug/L	96
57) Isopropylbenzene	12.46	105	488889	26.881	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	85143	26.007	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	63436	26.163	ug/L	97
62) Bromoform	12.35	173	52370	25.190	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	219404	25.451	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	217167	24.866	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	195677	25.420	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	14908	24.636	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	146357	24.601	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	120110	25.436	ug/L	100
69) Naphthalene	15.36	128	244825	26.393	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	106616	25.672	ug/L	98

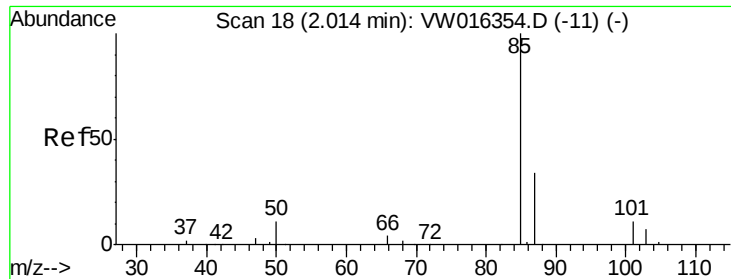
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.347 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

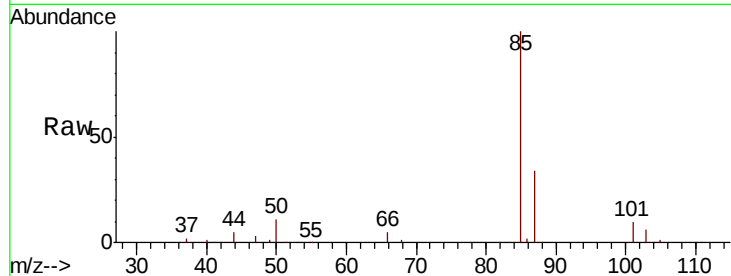
VSTD02528

Tot Ion: 85 Resp: 68680

Ion Ratio Lower Upper

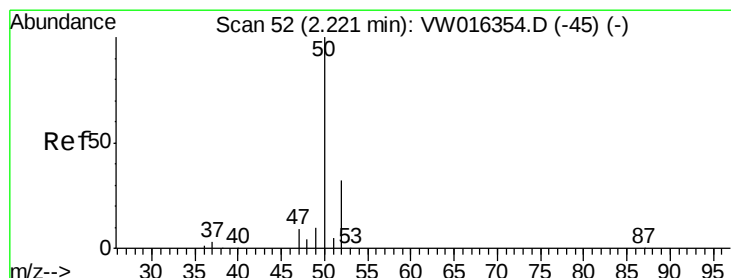
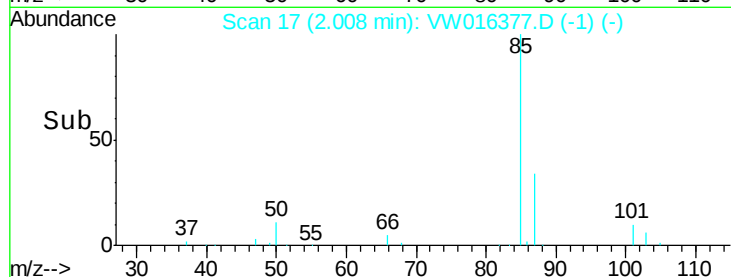
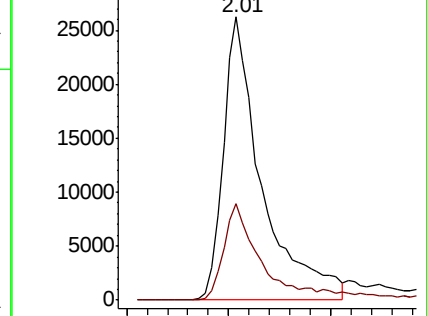
85 100

87 29.7 21.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.867 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW016377.D

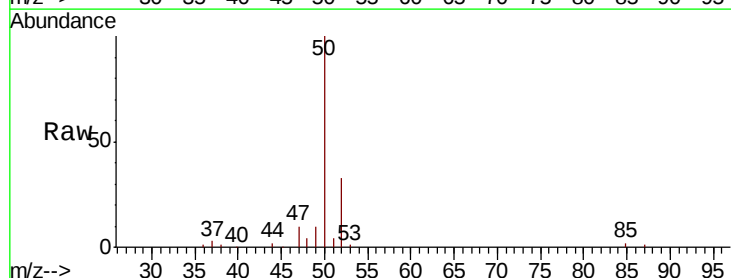
Acq: 26 Aug 2020 19:08

Tgt Ion: 50 Resp: 50225

Ion Ratio Lower Upper

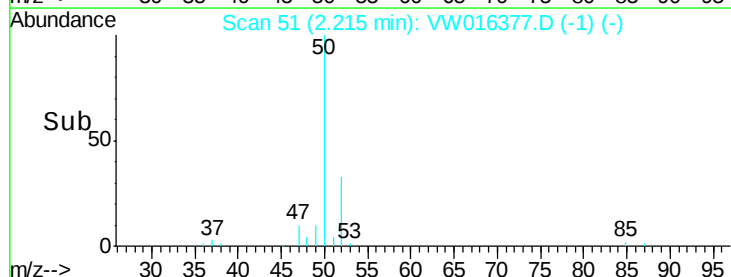
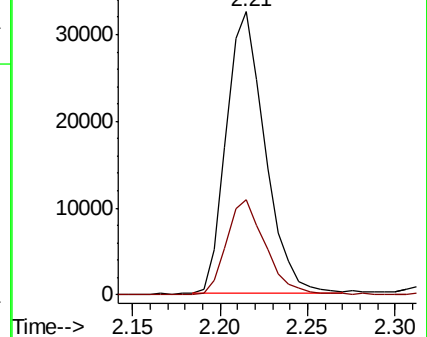
50 100

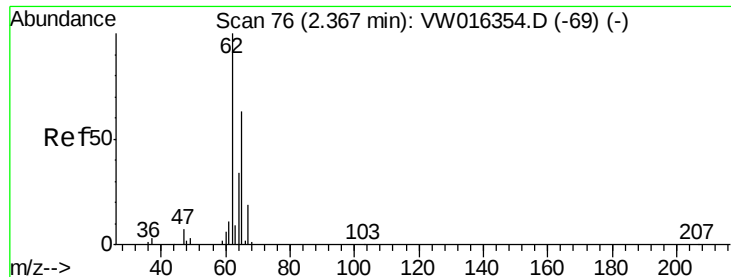
52 33.5 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 23.713 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

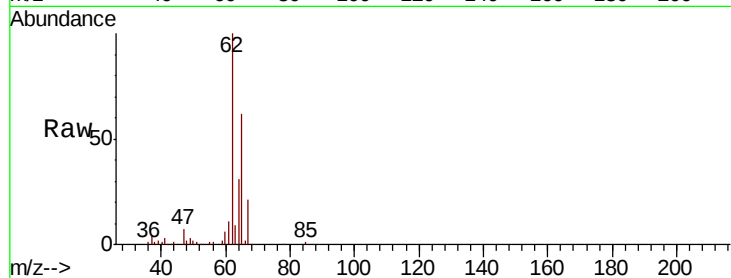
VSTD02528

Tot Ion: 62 Resp: 74181

Ion Ratio Lower Upper

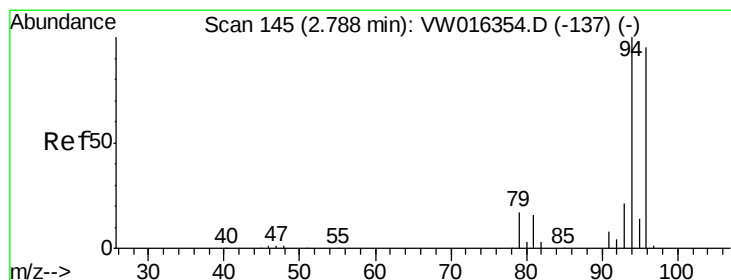
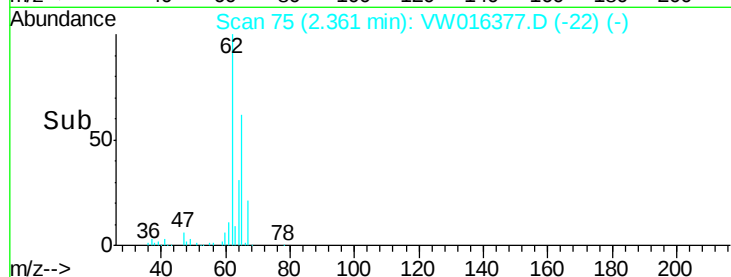
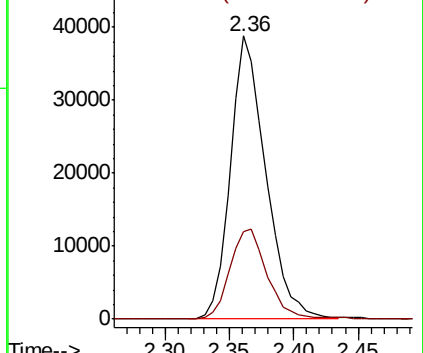
62 100

64 31.0 22.0 41.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 24.302 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW016377.D

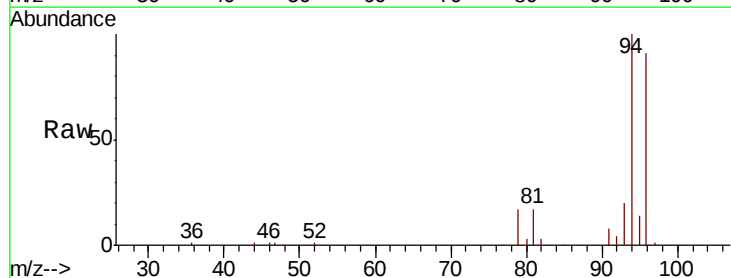
Acq: 26 Aug 2020 19:08

Tgt Ion: 94 Resp: 49700

Ion Ratio Lower Upper

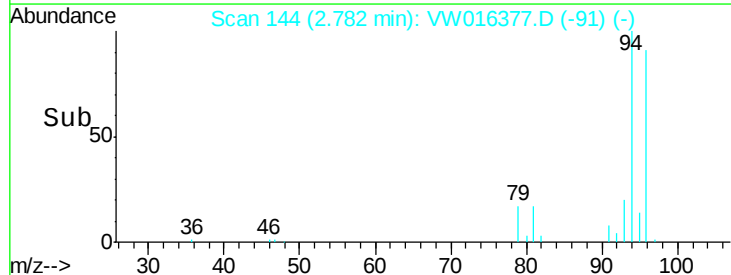
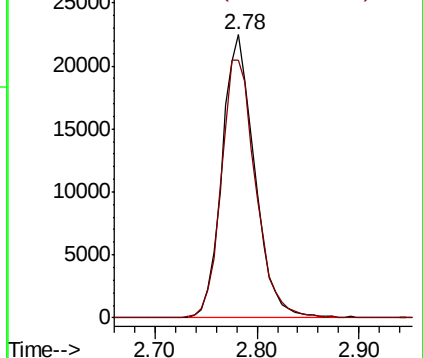
94 100

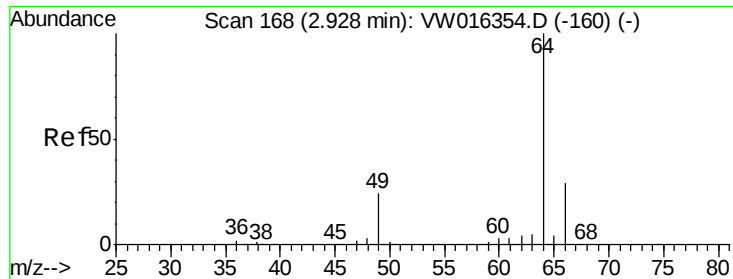
96 96.5 9.3 176.7



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW

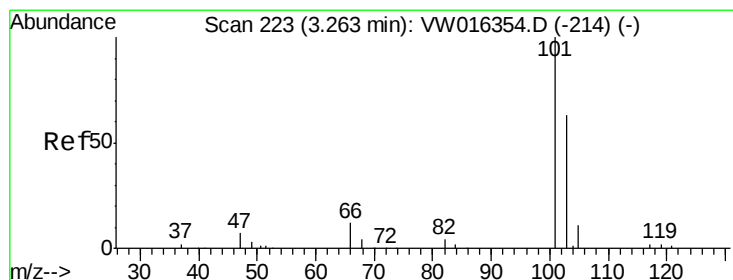
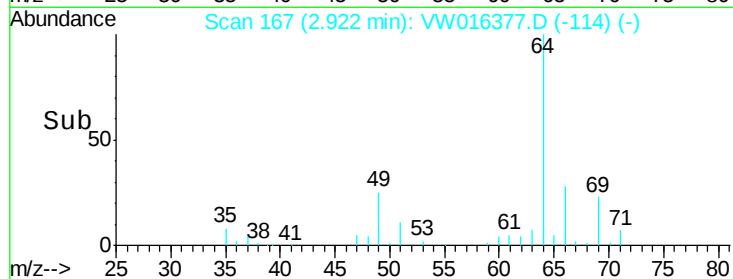
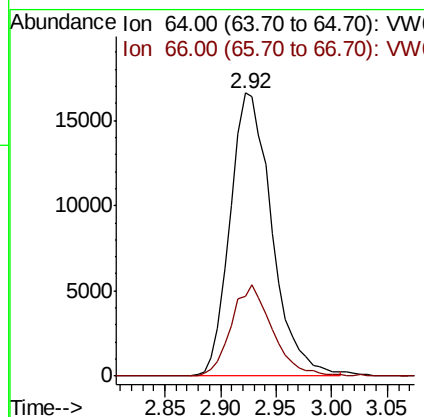
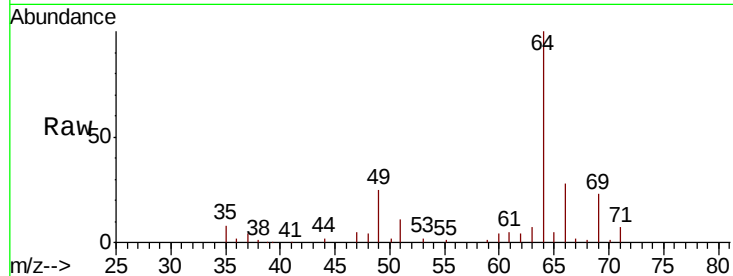




#8
Chloroethane
Concen: 24.869 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.01 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

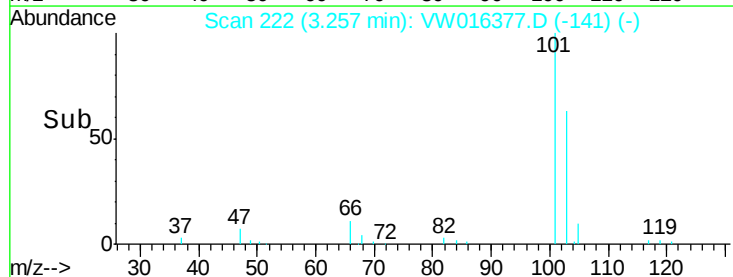
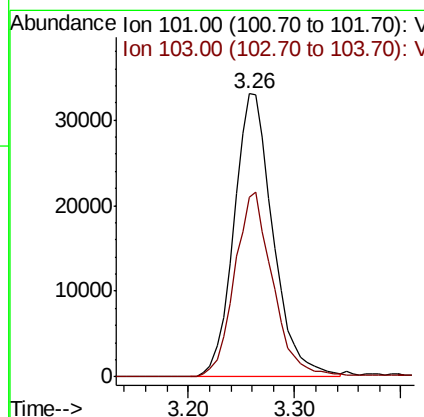
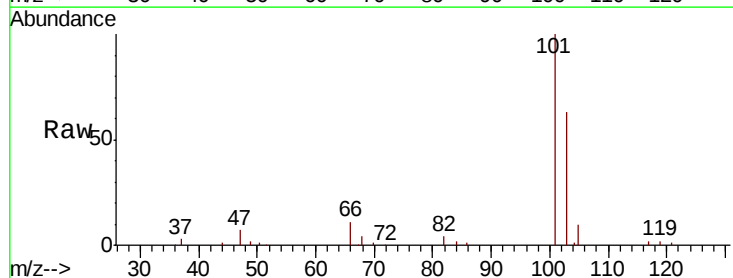
Instrument :
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VSTD02528

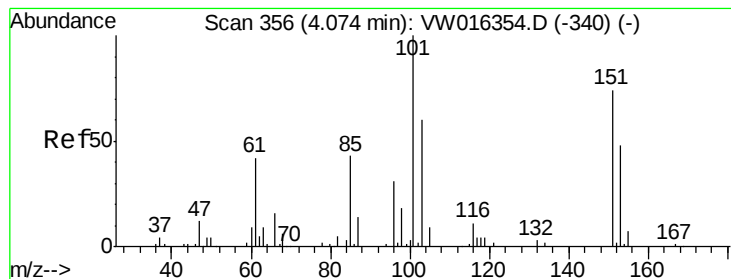
Tot Ion: 64 Resp: 43380
Ion Ratio Lower Upper
64 100
66 28.4 24.1 44.8



#9
Trichlorofluoromethane
Concen: 25.129 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.01 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion:101 Resp: 85072
Ion Ratio Lower Upper
101 100
103 63.7 44.8 83.2





#11

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

Concen: 25.673 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

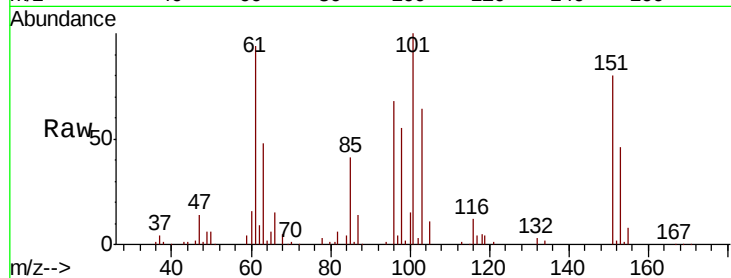
Tot Ion:101 Resp: 94870

Ion Ratio Lower Upper

101 100

85 41.7 31.8 47.6

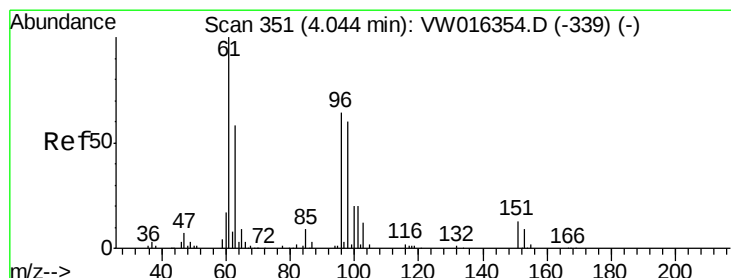
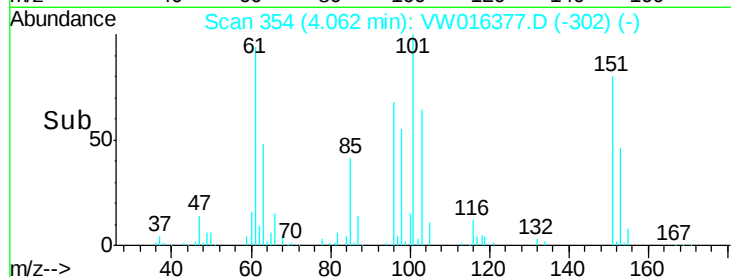
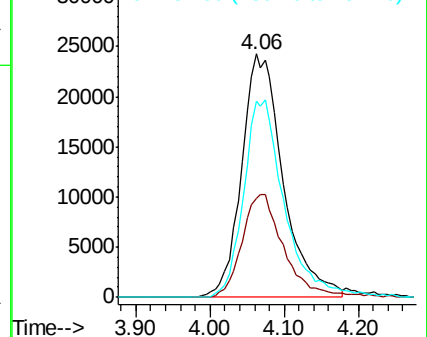
151 75.9 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.163 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

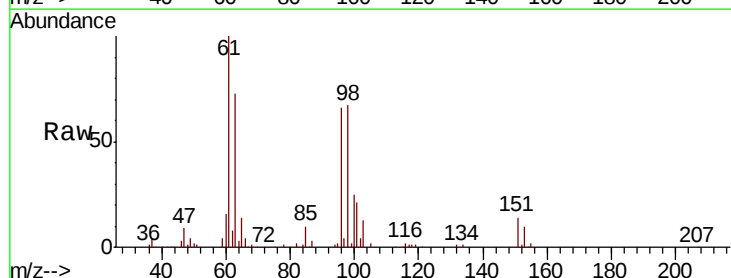
Tgt Ion: 96 Resp: 89434

Ion Ratio Lower Upper

96 100

61 150.7 112.3 208.5

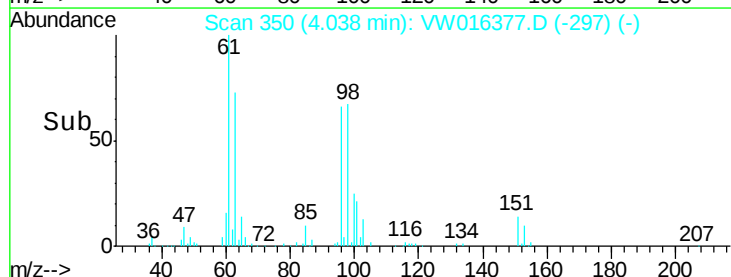
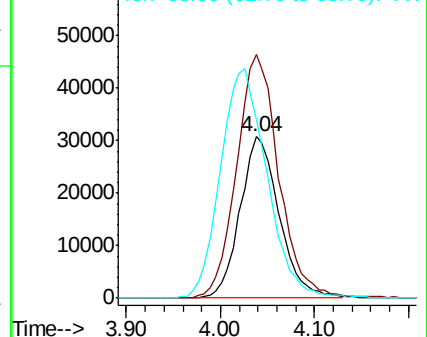
63 110.3 77.3 143.7

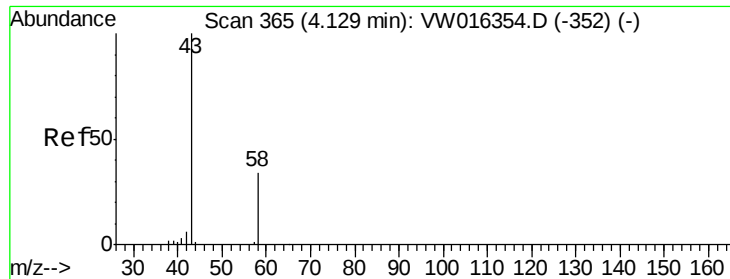


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 46.636 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

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ClientSampleId :

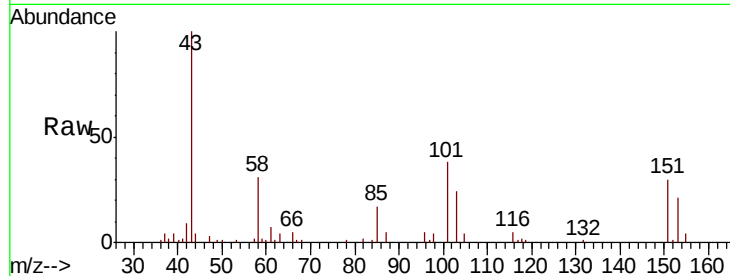
VSTD02528

Tot Ion: 43 Resp: 31464

Ion Ratio Lower Upper

43 100

58 32.7 0.0 63.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

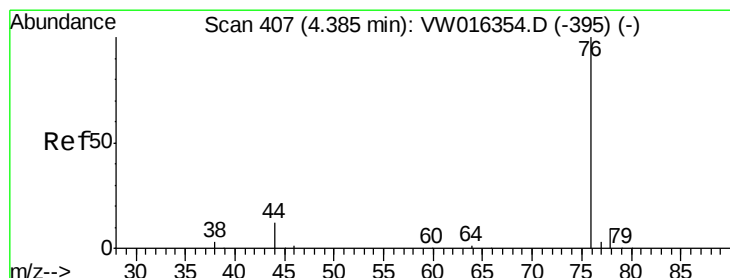
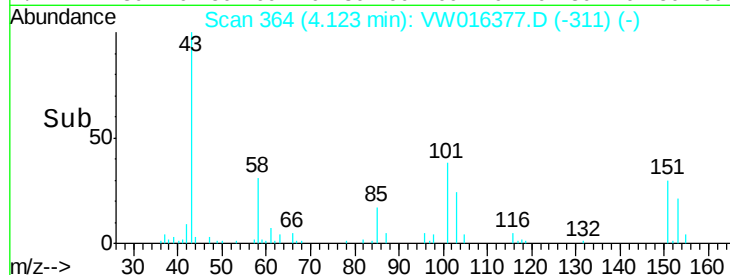
4.12

10000

5000

0

Time--> 4.00 4.05 4.10 4.15 4.20



#14

Carbon disulfide

Concen: 24.201 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW016377.D

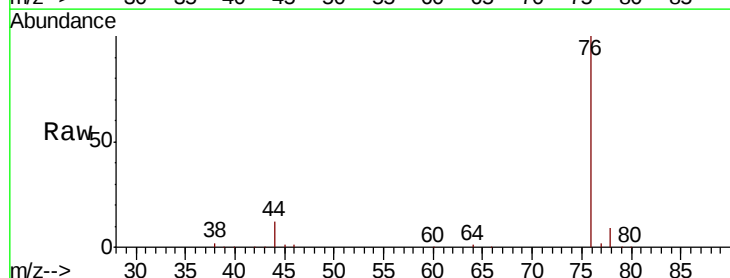
Acq: 26 Aug 2020 19:08

Tgt Ion: 76 Resp: 255025

Ion Ratio Lower Upper

76 100

78 9.1 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

80000

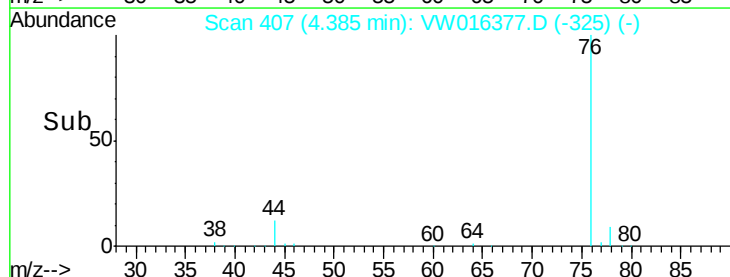
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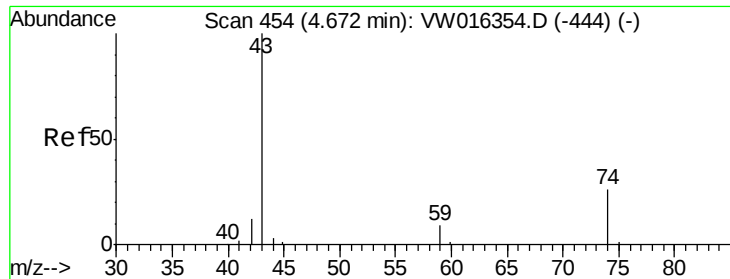
40000

20000

0

Time--> 4.30 4.40 4.50

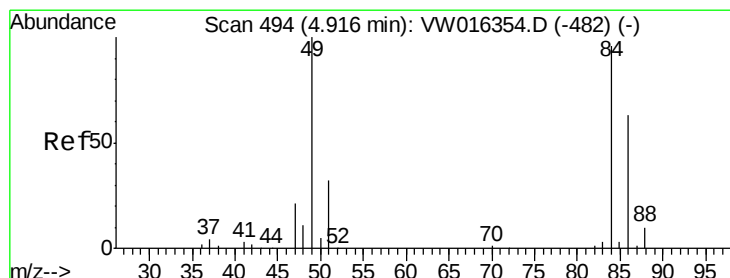
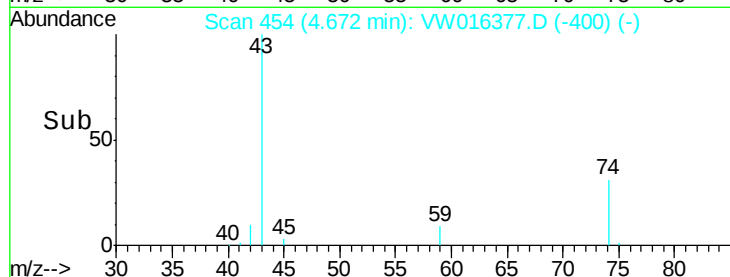
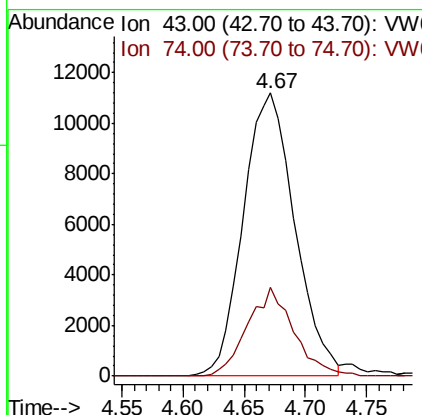
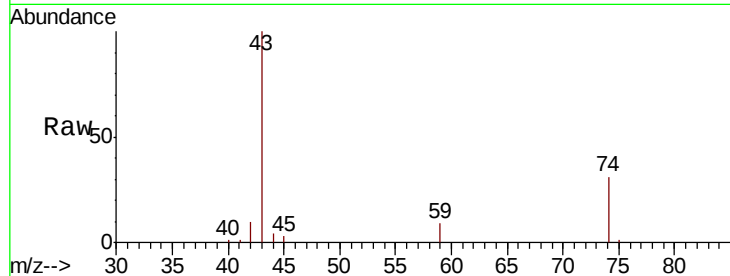




#15
Methvl Acetate
Concen: 24.219 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

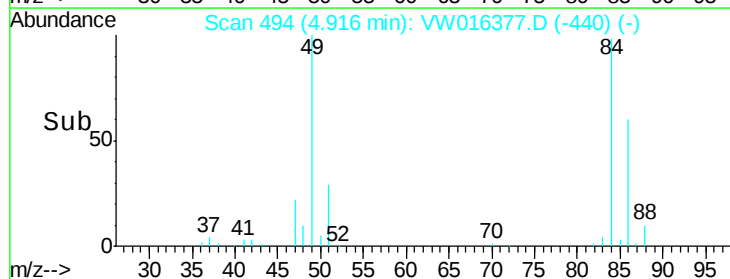
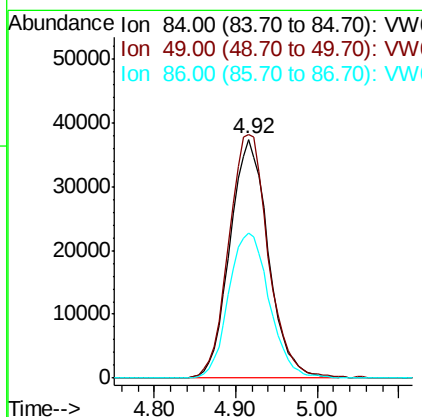
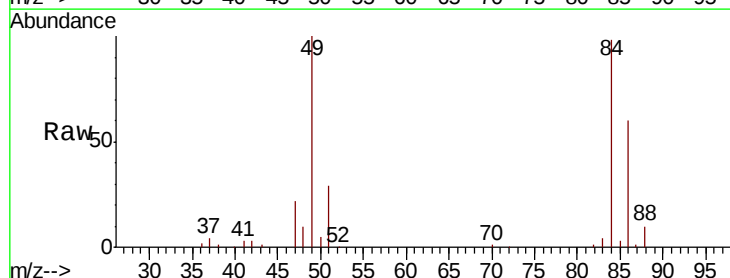
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

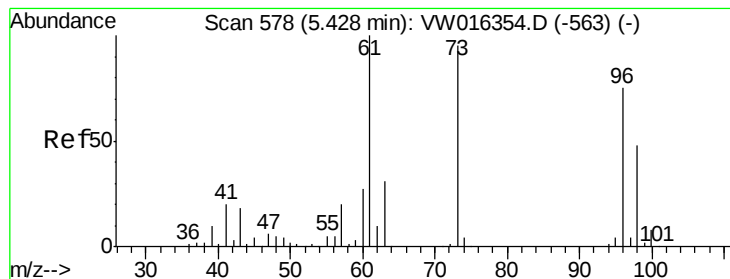
Tot Ion: 43 Resp: 32876
Ion Ratio Lower Upper
43 100
74 28.1 21.0 31.6



#16
Methylene chloride
Concen: 24.730 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion: 84 Resp: 122396
Ion Ratio Lower Upper
84 100
49 101.9 75.3 139.9
86 60.7 43.3 80.3



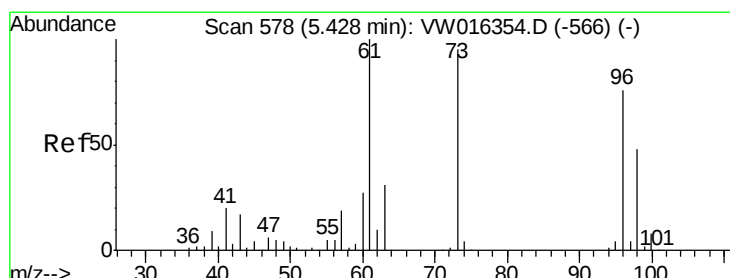
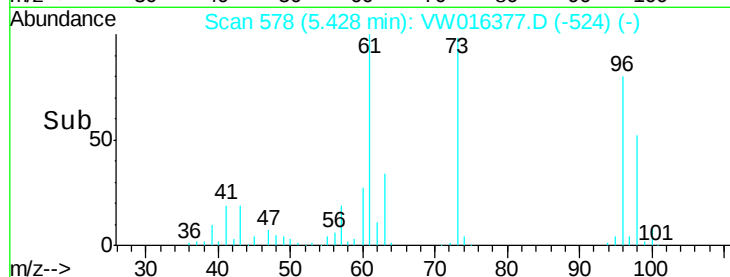
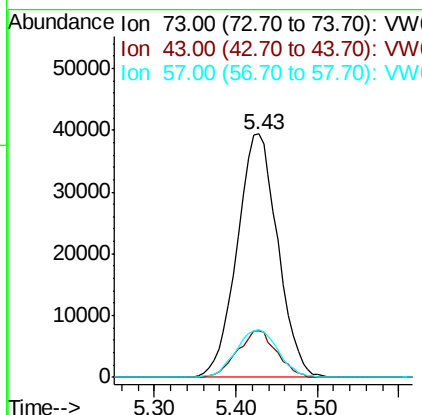
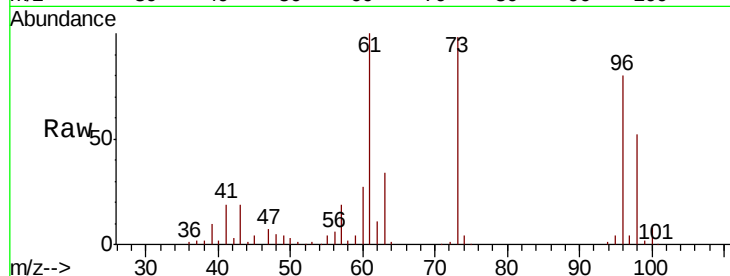


#17

Methvl tert-butvl Ether
 Concen: 26.243 ug/L
 RT: 5.43 min Scan# 578
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

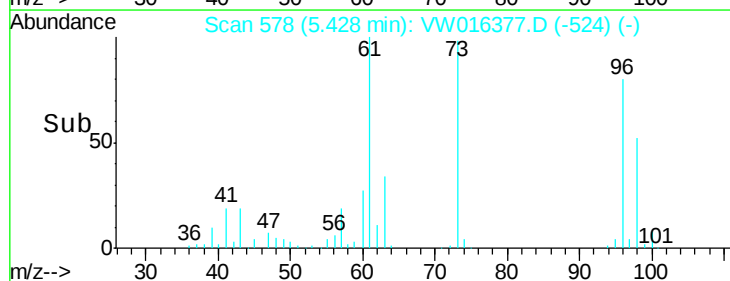
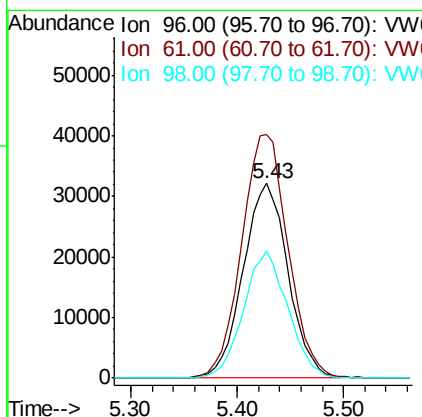
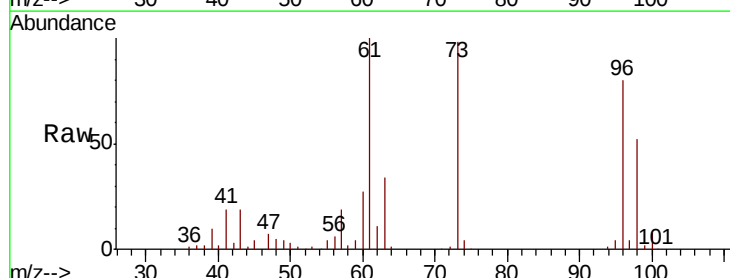
Tot Ion: 73 Resp: 136382
 Ion Ratio Lower Upper
 73 100
 43 18.7 15.3 22.9
 57 20.4 16.1 24.1

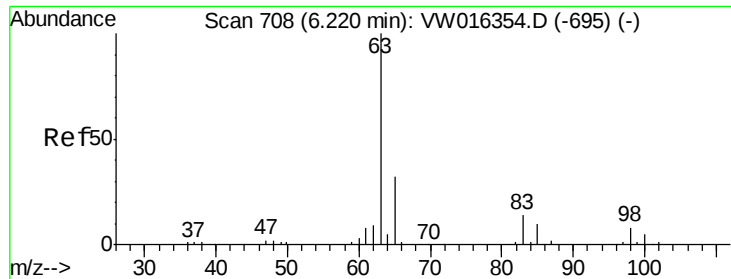


#18

trans-1,2-Dichloroethene
 Concen: 25.482 ug/L
 RT: 5.43 min Scan# 578
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion: 96 Resp: 95138
 Ion Ratio Lower Upper
 96 100
 61 125.3 89.9 167.0
 98 65.4 41.6 77.2

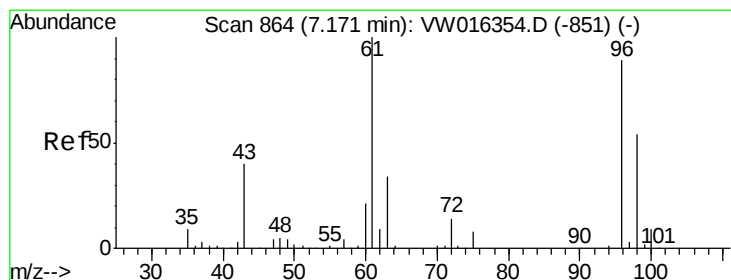
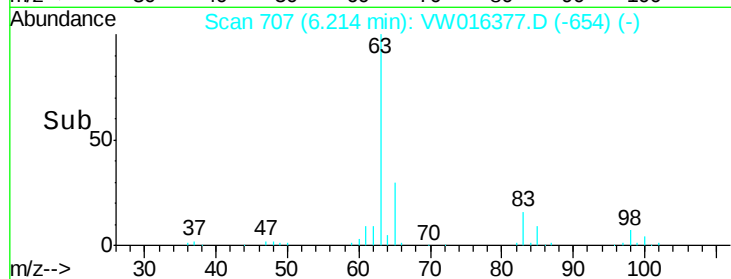
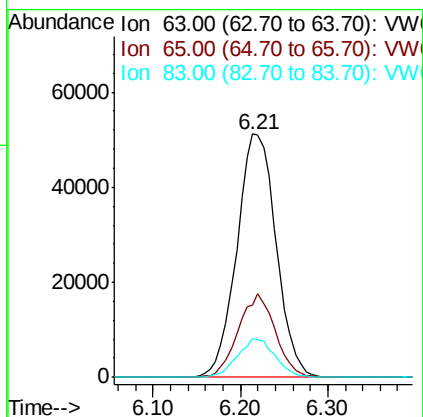
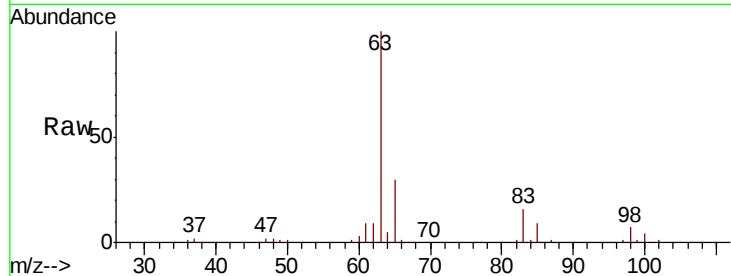




#19
 1,1-Dichloroethane
 Concen: 25.932 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.01 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

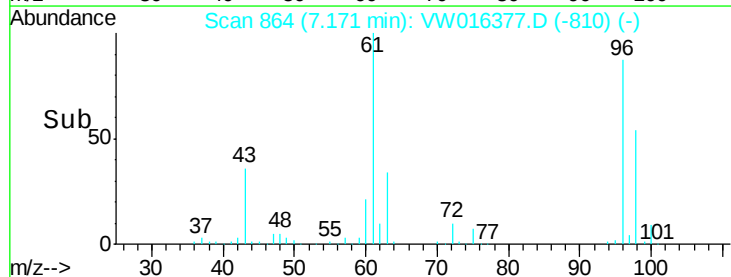
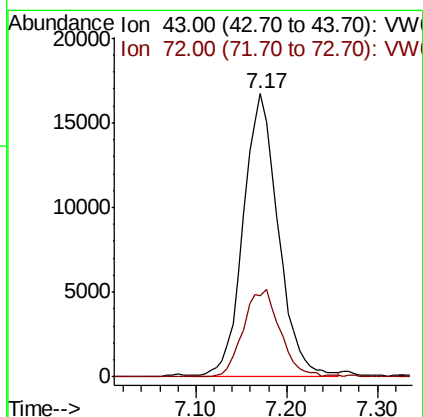
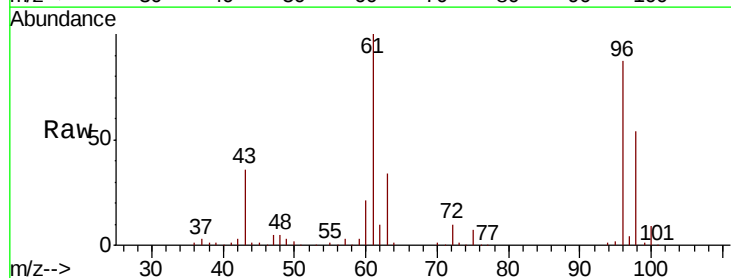
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

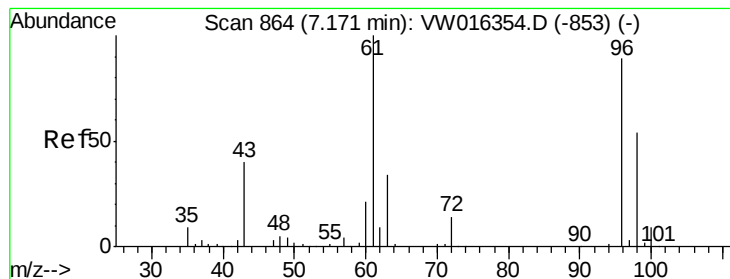
Tot Ion: 63 Resp: 159524
 Ion Ratio Lower Upper
 63 100
 65 29.9 21.8 40.6
 83 16.0 9.6 17.8



#21
 2-Butanone
 Concen: 46.610 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion: 43 Resp: 44803
 Ion Ratio Lower Upper
 43 100
 72 32.1 16.0 48.0





#22

cis-1,2-Dichloroethene

Concen: 26.463 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

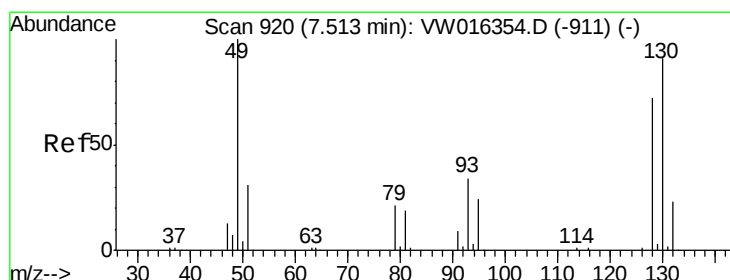
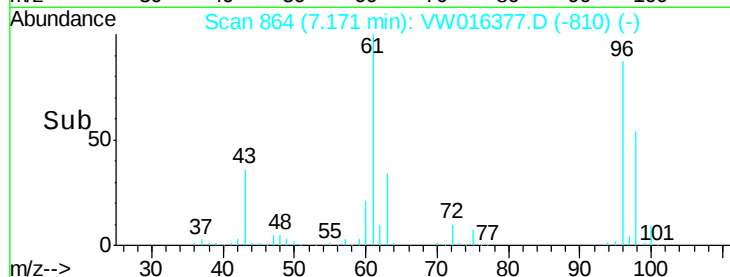
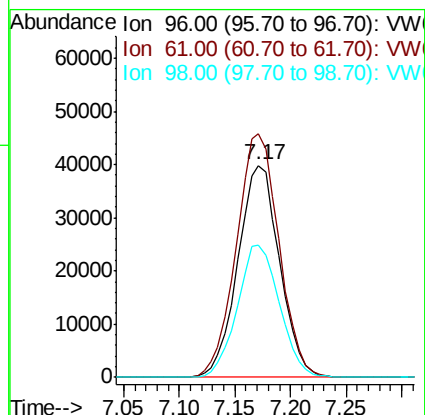
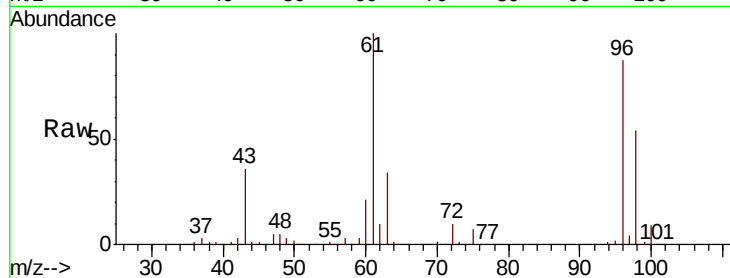
Tot Ion: 96 Resp: 103907

Ion Ratio Lower Upper

96 100

61 114.8 84.9 157.7

98 62.1 46.8 86.8



#23

Bromochloromethane

Concen: 26.564 ug/L

RT: 7.52 min Scan# 921

Delta R.T. 0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Tgt Ion: 128 Resp: 47843

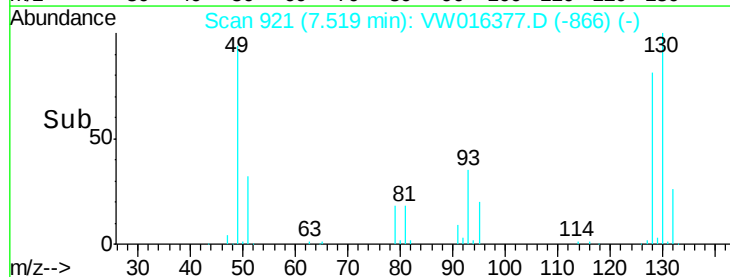
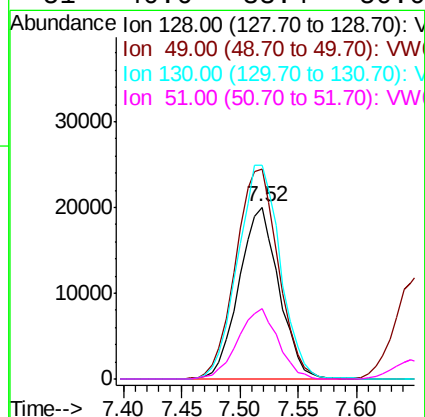
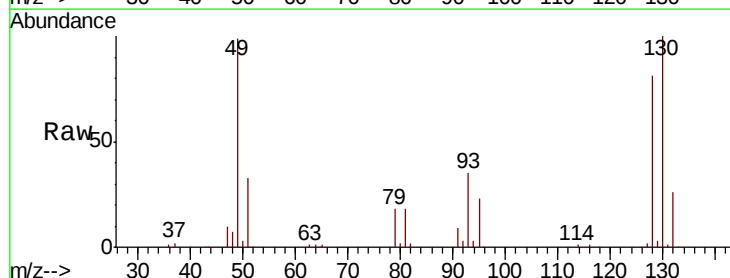
Ion Ratio Lower Upper

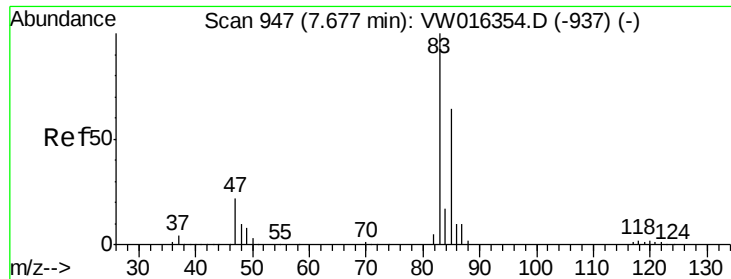
128 100

49 122.4 94.5 175.5

130 124.2 83.0 154.1

51 40.6 33.4 50.0

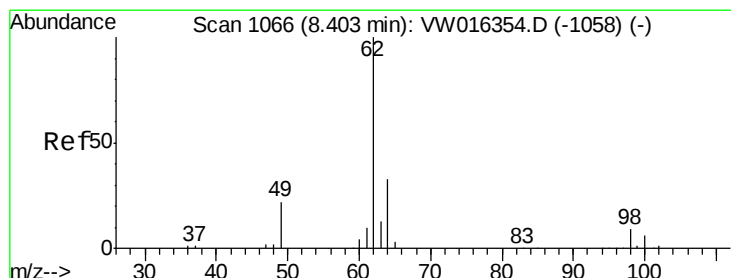
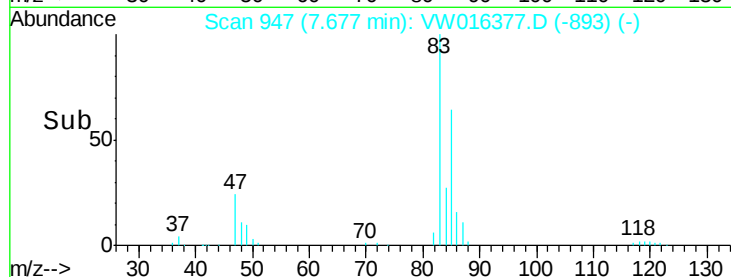
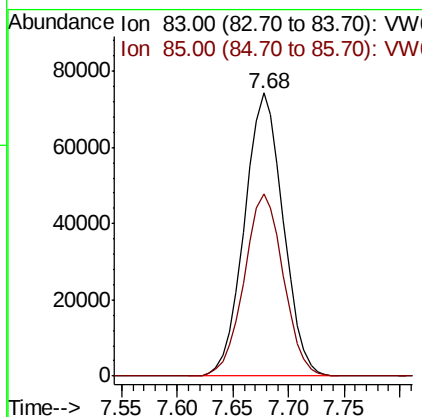
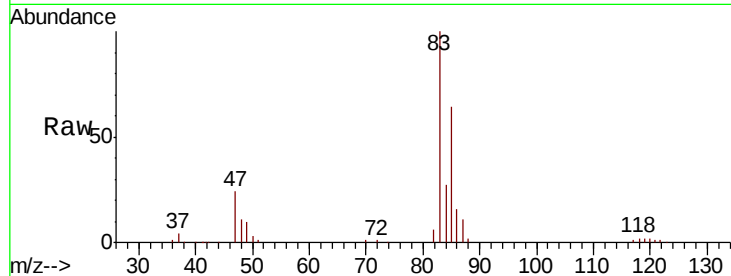




#25
Chloroform
Concen: 27.178 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

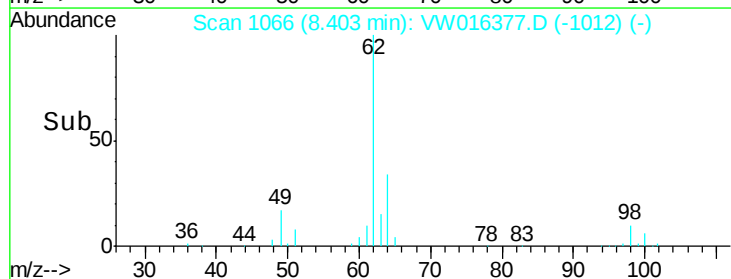
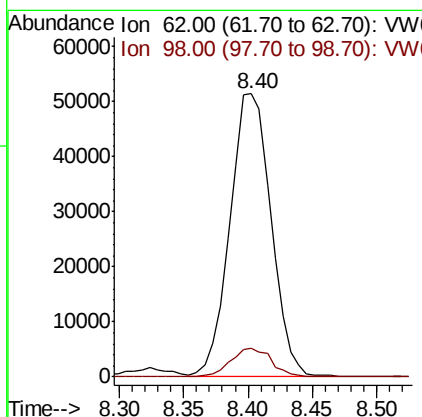
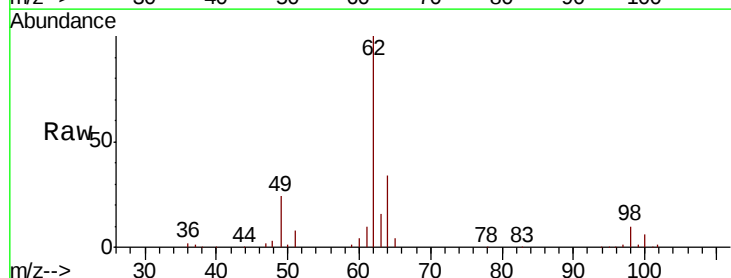
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

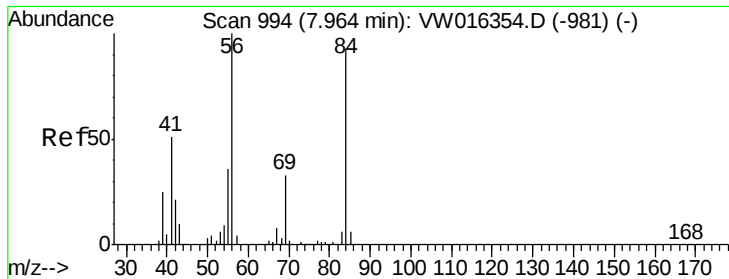
Tot Ion: 83 Resp: 180050
Ion Ratio Lower Upper
83 100
85 65.2 45.3 84.1



#27
1,2-Dichloroethane
Concen: 27.575 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion: 62 Resp: 114415
Ion Ratio Lower Upper
62 100
98 9.9 7.8 11.8

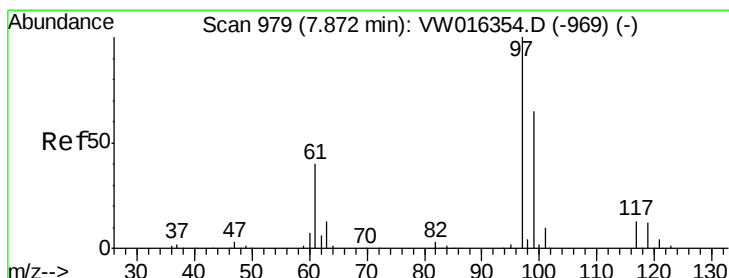
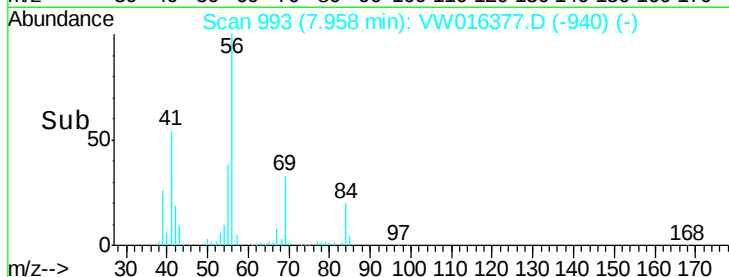
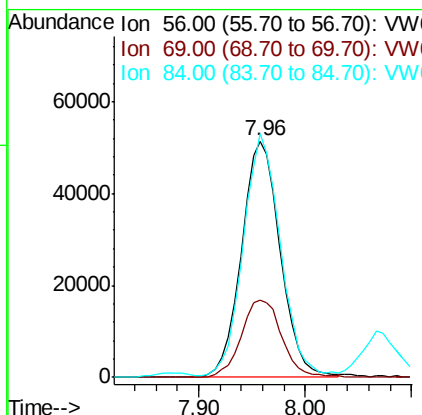
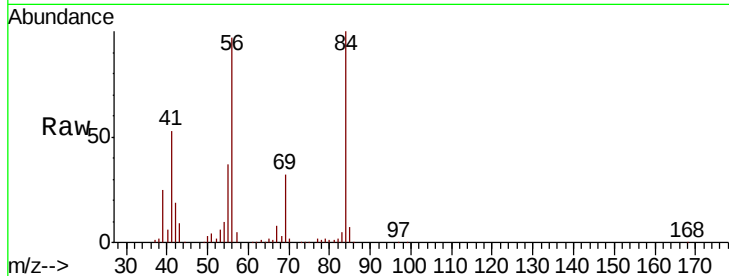




#30
Cyclohexane
Concen: 24.132 ug/L
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

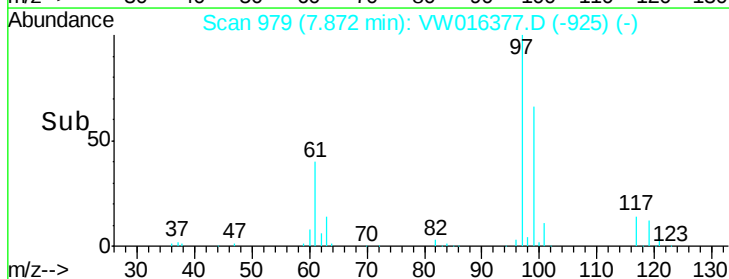
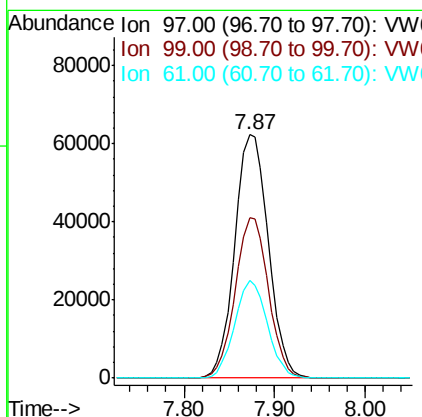
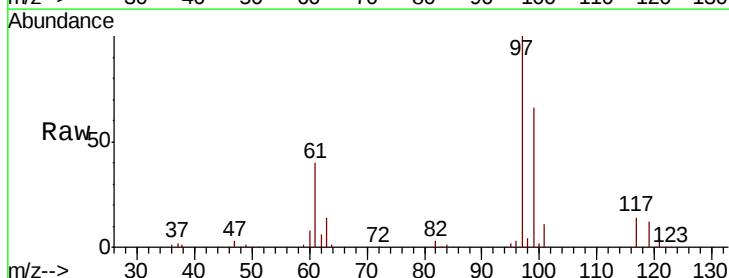
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

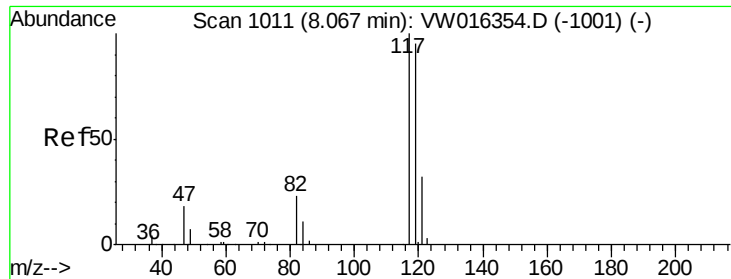
Tot Ion: 56 Resp: 131433
Ion Ratio Lower Upper
56 100
69 34.0 26.6 40.0
84 99.3 78.4 117.6



#31
1,1,1-Trichloroethane
Concen: 26.566 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion: 97 Resp: 161008
Ion Ratio Lower Upper
97 100
99 65.2 51.5 77.3
61 39.0 32.0 48.0





#32

Carbon tetrachloride

Concen: 26.194 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

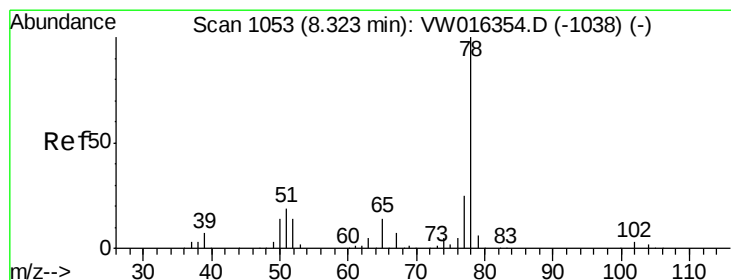
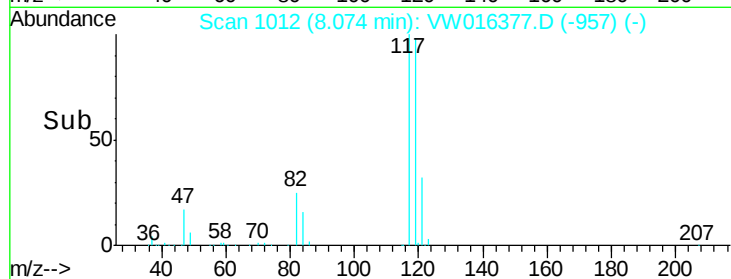
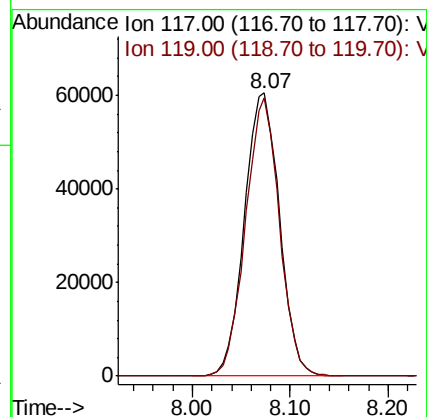
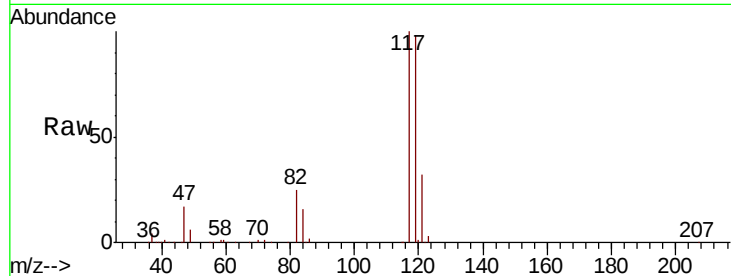
VSTD02528

Tot Ion:117 Resp: 150742

Ion Ratio Lower Upper

117 100

119 94.7 77.3 115.9



#34

Benzene

Concen: 26.102 ug/L

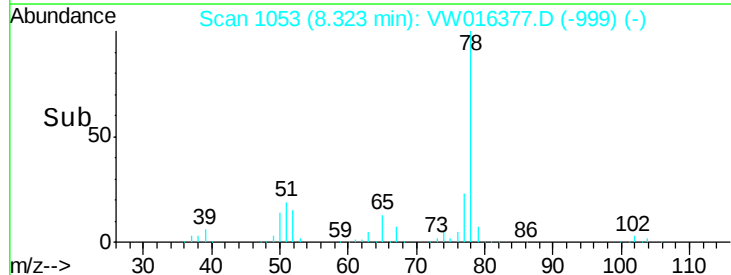
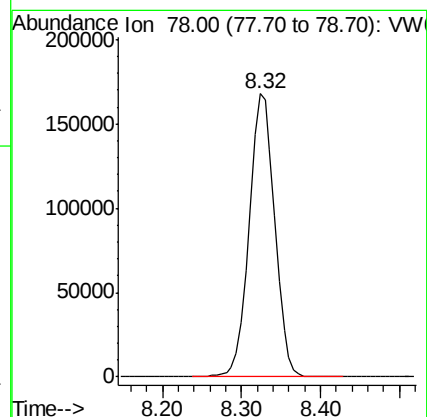
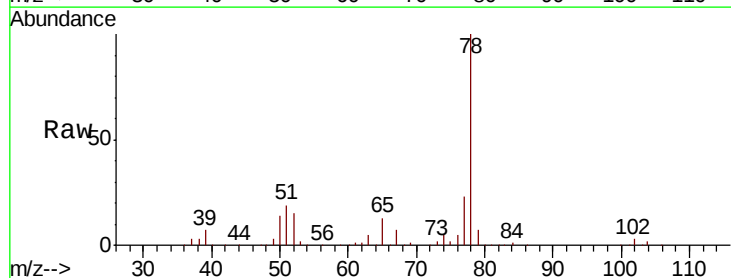
RT: 8.32 min Scan# 1053

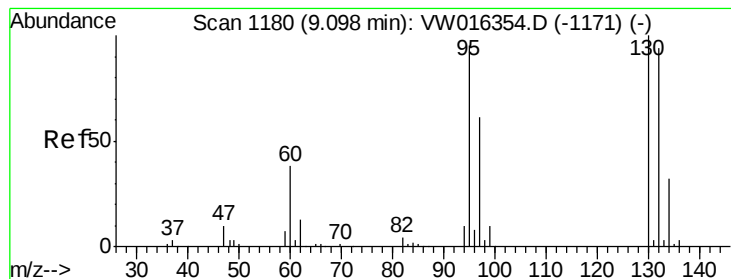
Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Tgt Ion: 78 Resp: 377275





#35

Trichloroethene

Concen: 25.693 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tot Ion: 95 Resp: 105147

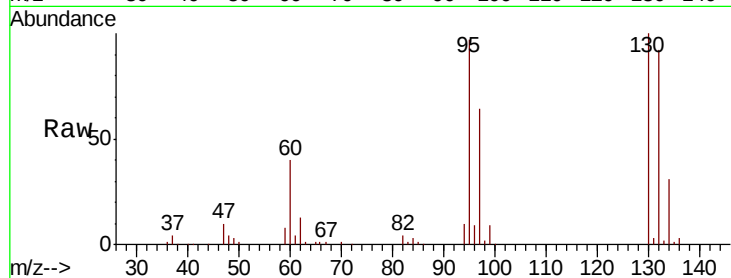
Ion Ratio Lower Upper

95 100

97 64.4 44.9 83.5

132 98.6 68.2 126.6

130 104.9 71.5 132.9

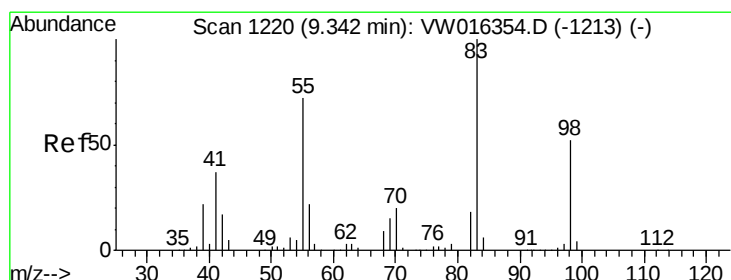
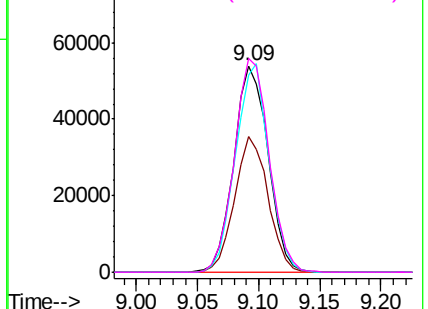
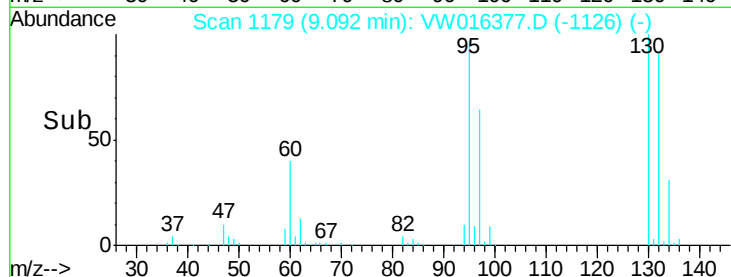


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 24.582 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

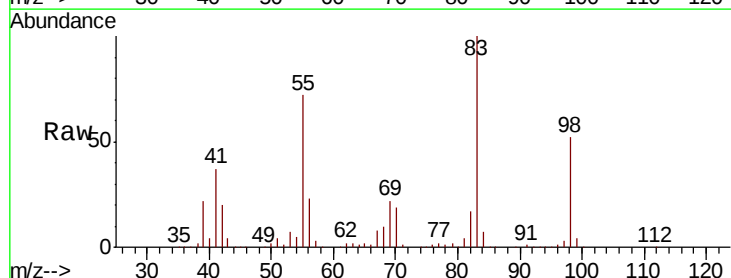
Tgt Ion: 83 Resp: 164225

Ion Ratio Lower Upper

83 100

55 71.4 55.6 83.4

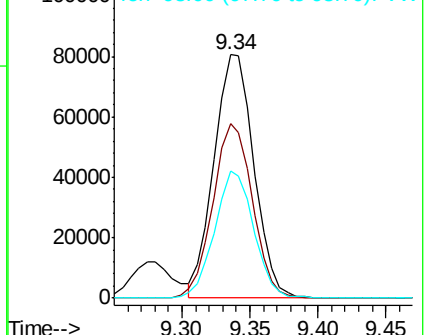
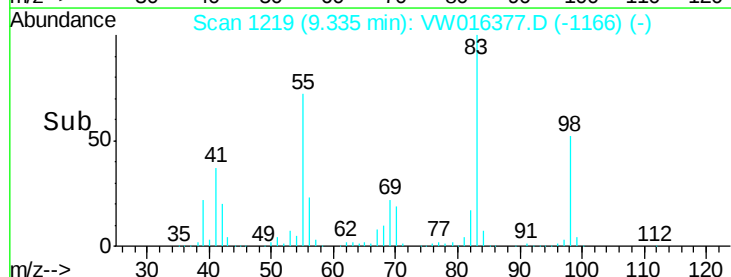
98 51.3 40.6 61.0

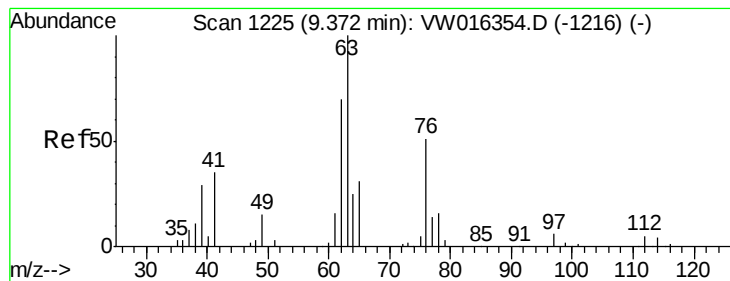


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 25.637 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

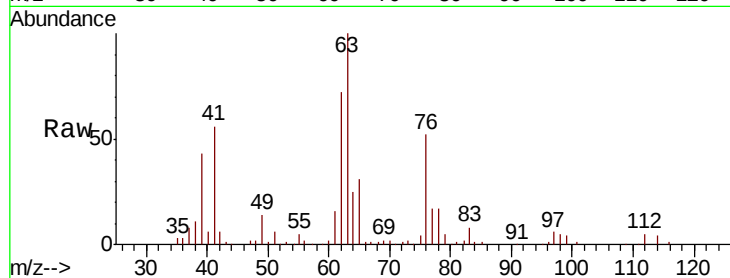
VSTD02528

Tot Ion: 63 Resp: 87145

Ion Ratio Lower Upper

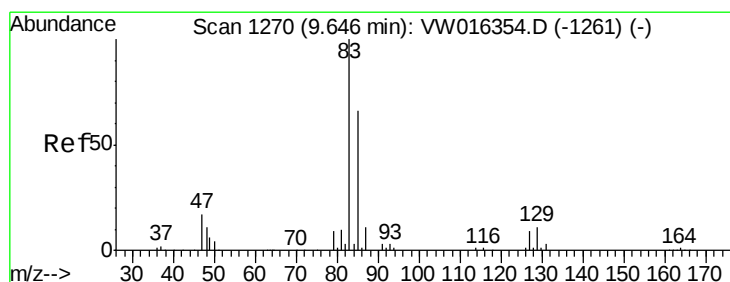
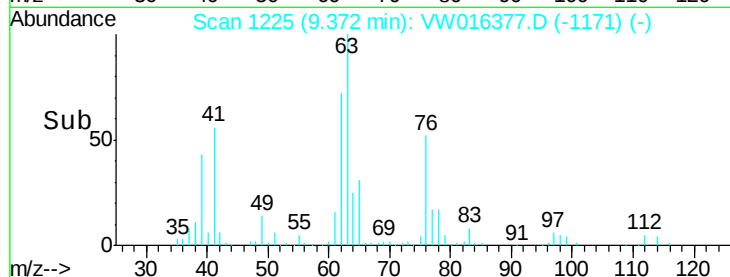
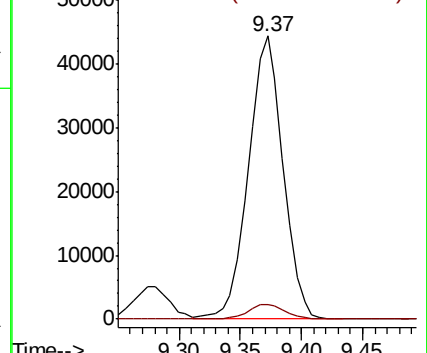
63 100

112 5.7 4.4 6.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 27.326 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

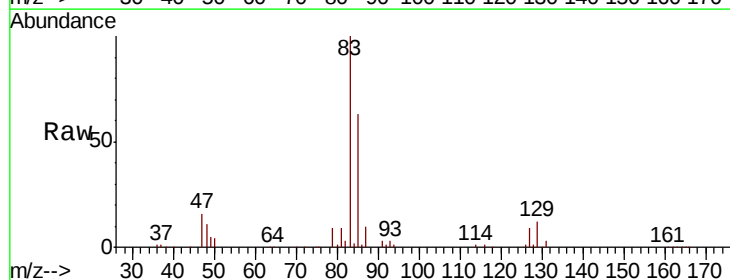
Tgt Ion: 83 Resp: 131578

Ion Ratio Lower Upper

83 100

85 63.2 44.7 83.1

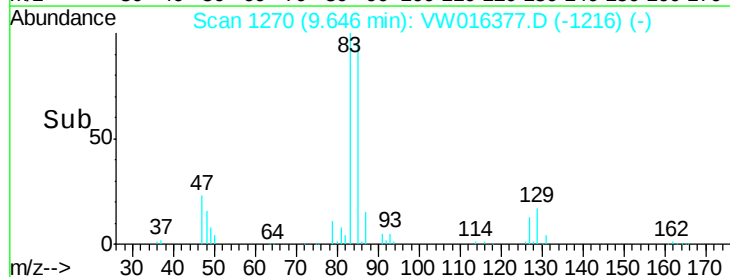
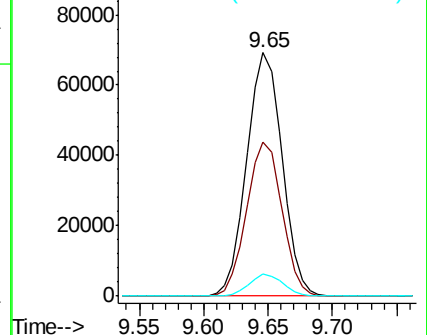
127 8.9 7.0 10.4

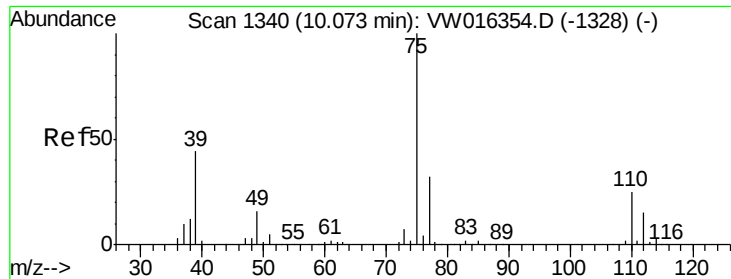


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

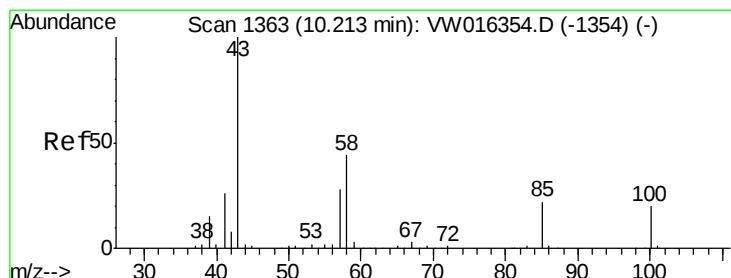
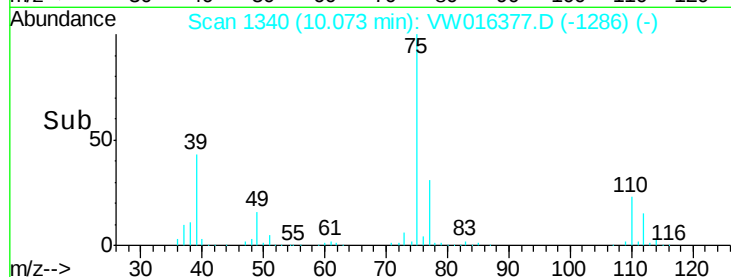
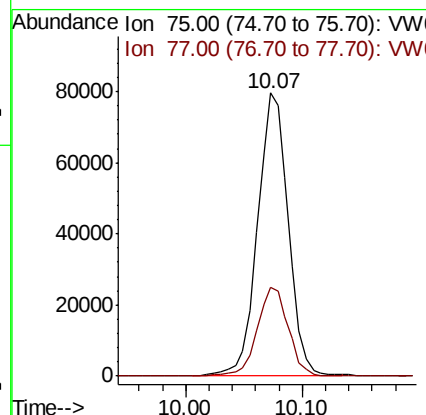
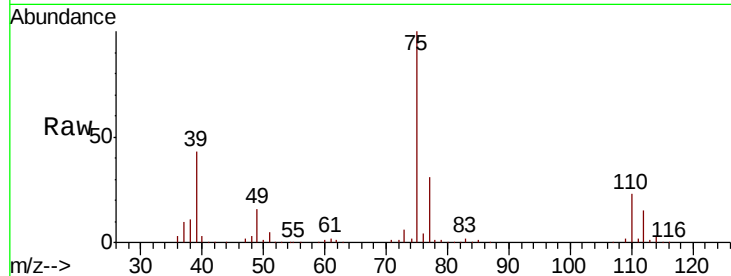




#42
 cis-1,3-Dichloropropene
 Concen: 26.290 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

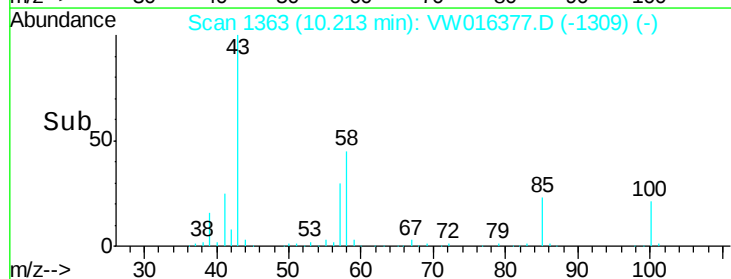
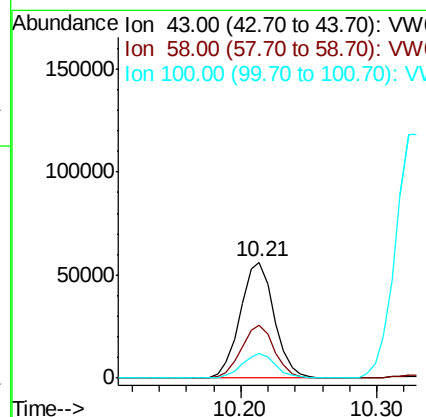
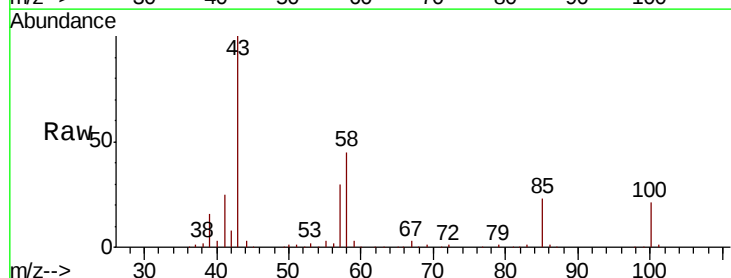
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

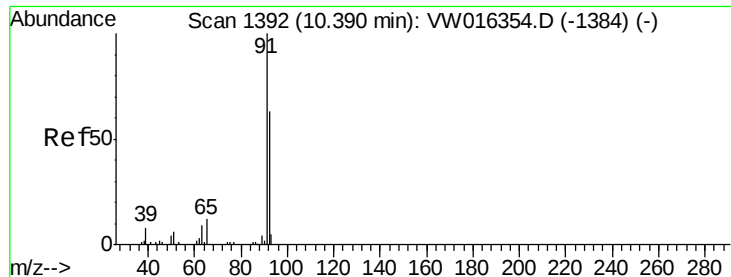
Tot Ion: 75 Resp: 146320
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 40.8



#43
 4-Methyl-2-pentanone
 Concen: 48.303 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion: 43 Resp: 98171
 Ion Ratio Lower Upper
 43 100
 58 44.4 34.9 52.3
 100 20.6 15.9 23.9





#44

Toluene

Concen: 26.546 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

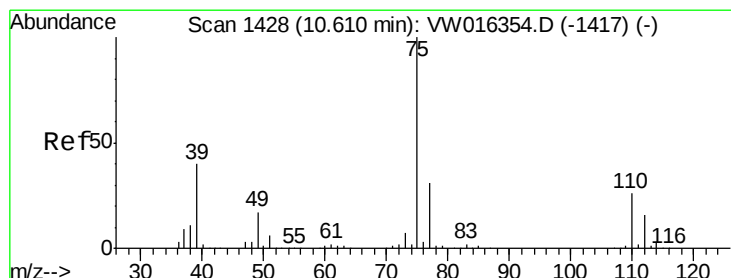
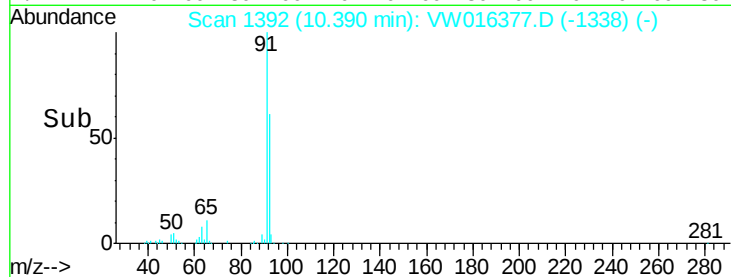
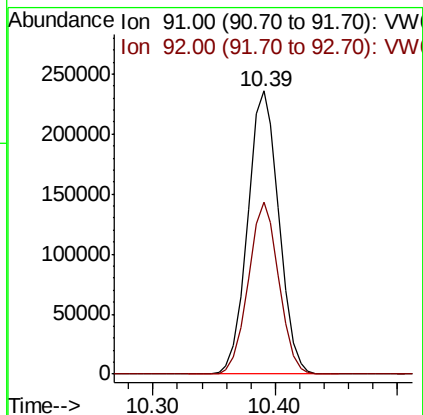
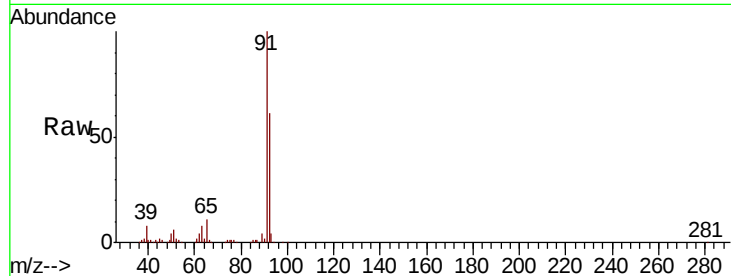
VSTD02528

Tot Ion: 91 Resp: 417854

Ion Ratio Lower Upper

91 100

92 60.6 41.5 77.1



#45

trans-1,3-Dichloropropene

Concen: 26.580 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016377.D

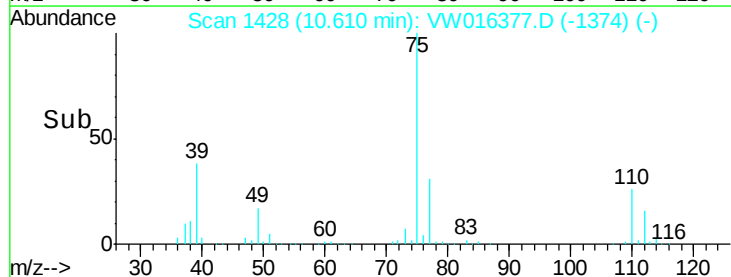
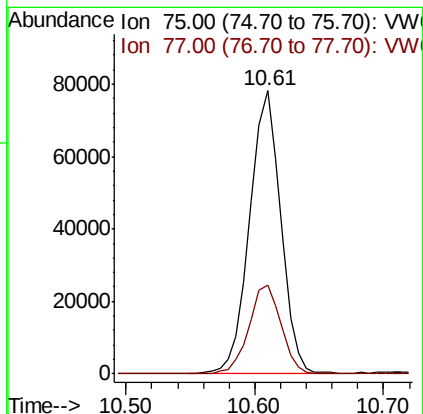
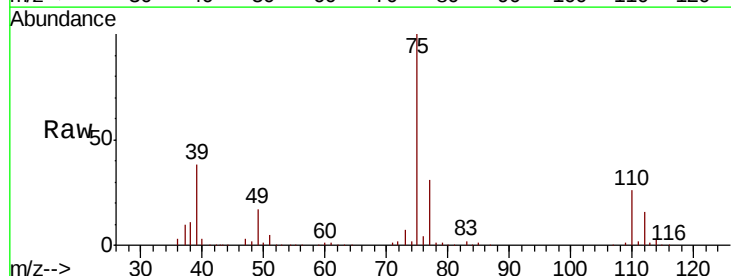
Acq: 26 Aug 2020 19:08

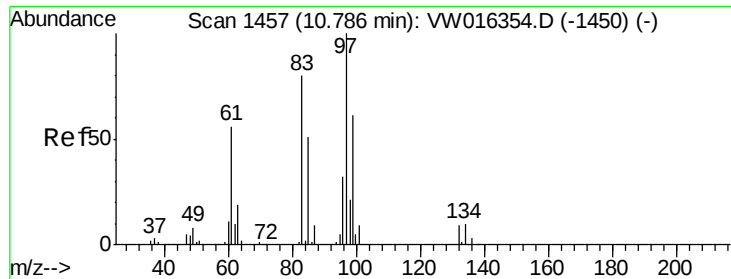
Tgt Ion: 75 Resp: 130793

Ion Ratio Lower Upper

75 100

77 31.3 21.3 39.5





#46

1,1,2-Trichloroethane

Concen: 26.470 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tot Ion: 97 Resp: 74264

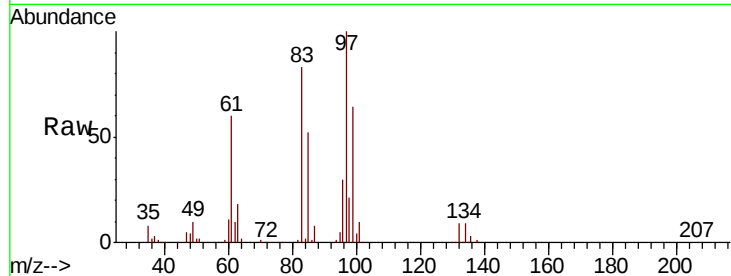
Ion Ratio Lower Upper

97 100

83 82.5 57.9 107.5

85 52.2 38.8 72.0

99 63.8 46.4 86.2

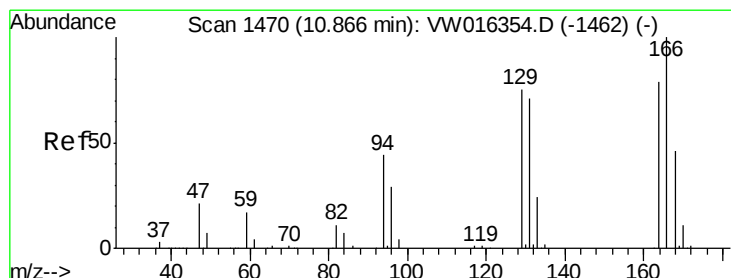
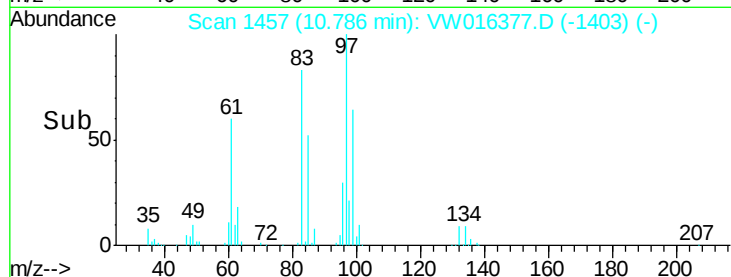
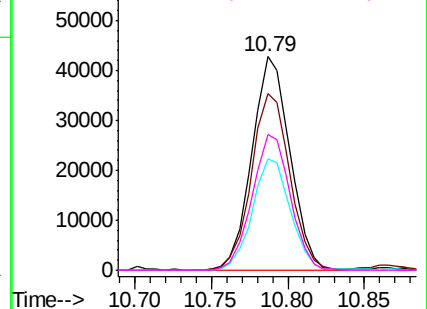


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 26.798 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Tgt Ion: 164 Resp: 86482

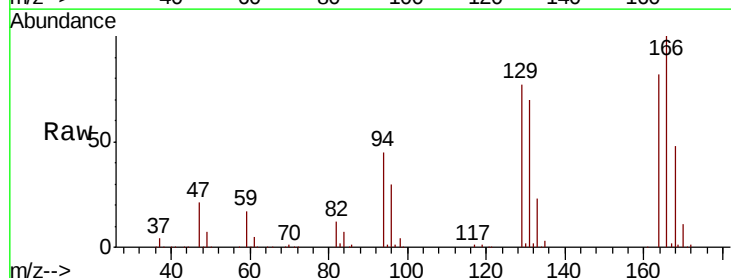
Ion Ratio Lower Upper

164 100

129 94.4 71.5 132.7

131 85.7 67.4 125.2

166 122.2 92.5 171.9

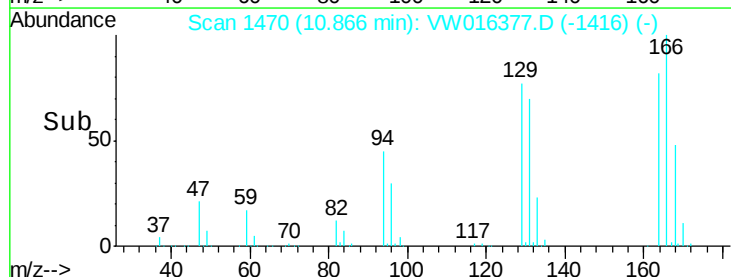
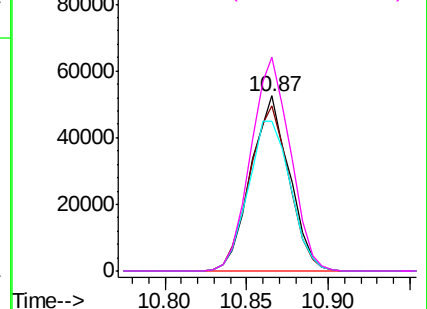


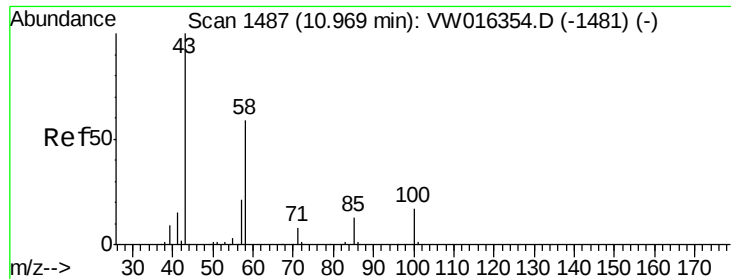
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 51.193 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tot Ion: 43 Resp: 67402

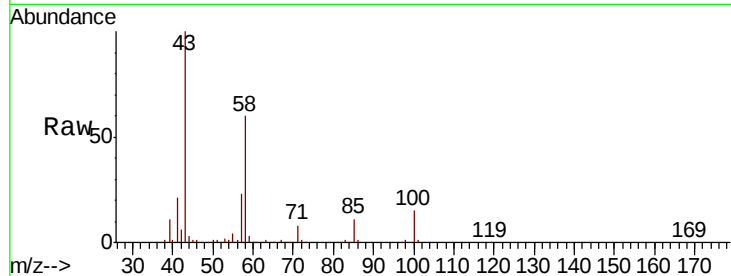
Ion Ratio Lower Upper

43 100

58 61.0 49.5 74.3

57 22.0 17.7 26.5

100 16.3 12.9 19.3

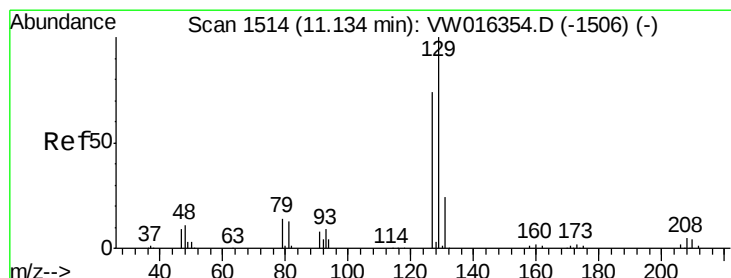
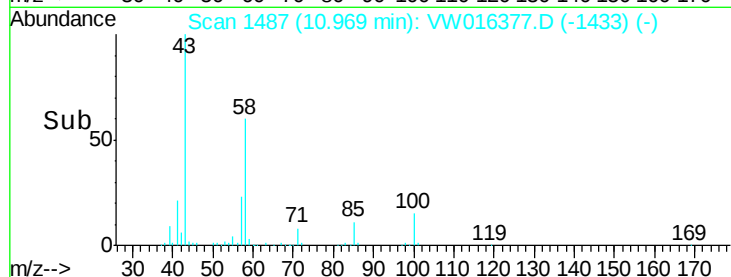
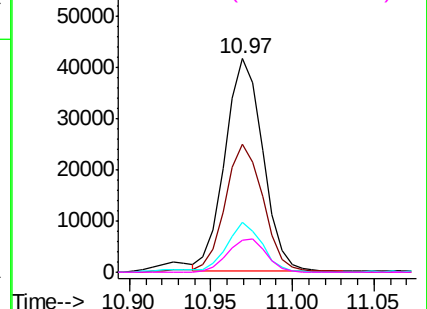


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 27.072 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VW016377.D

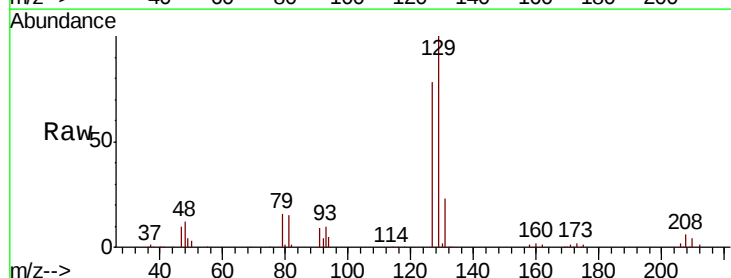
Acq: 26 Aug 2020 19:08

Tgt Ion: 129 Resp: 94595

Ion Ratio Lower Upper

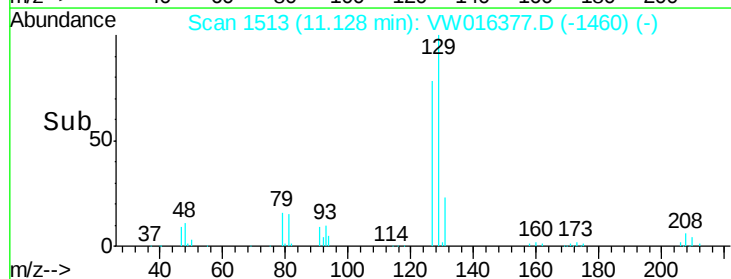
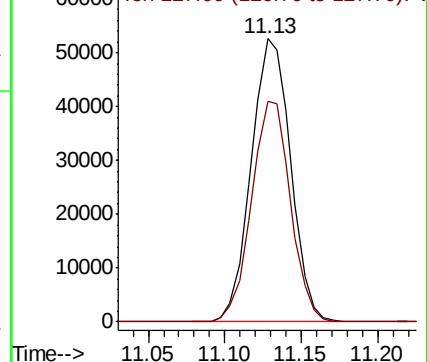
129 100

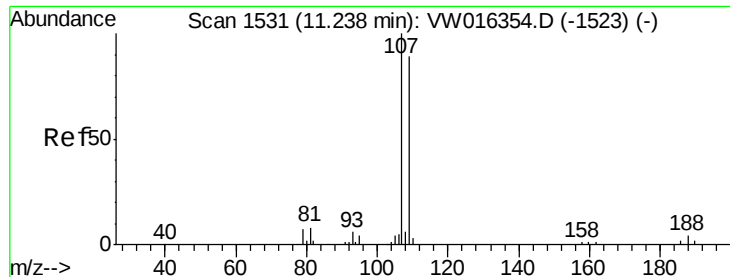
127 78.1 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

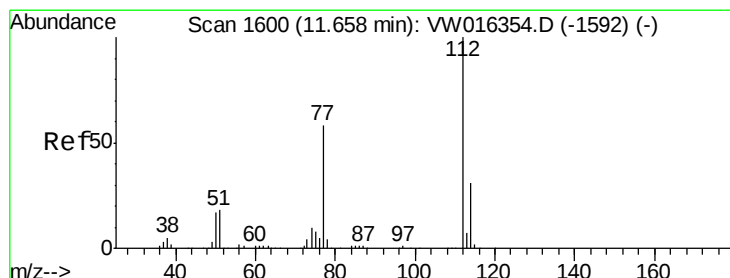
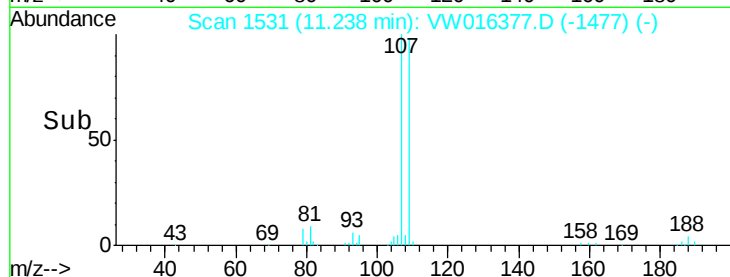
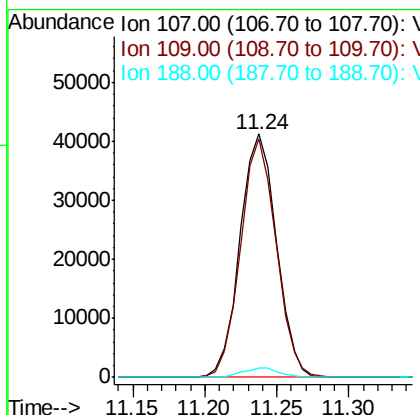
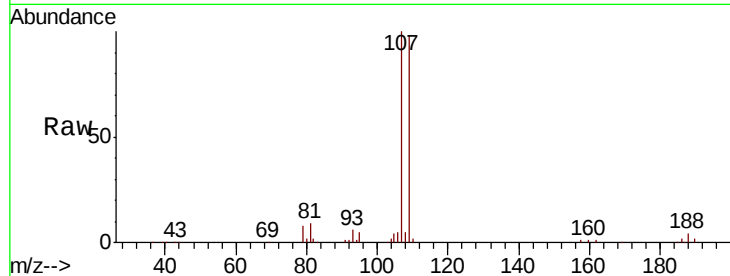




#51
1,2-Dibromoethane
Concen: 26.410 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

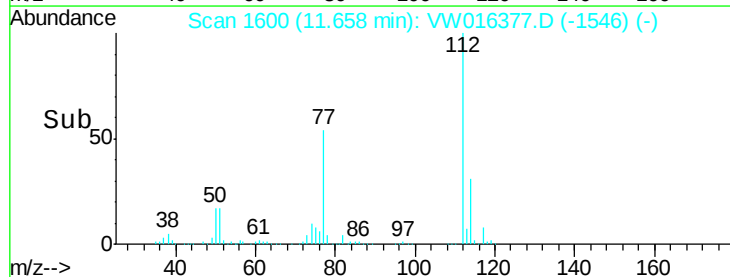
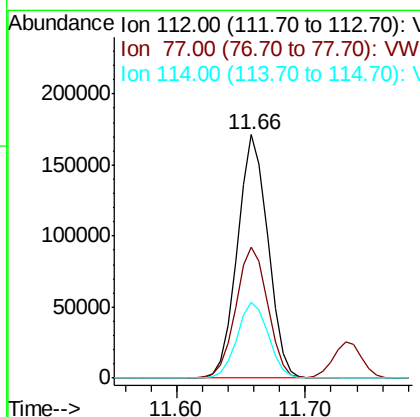
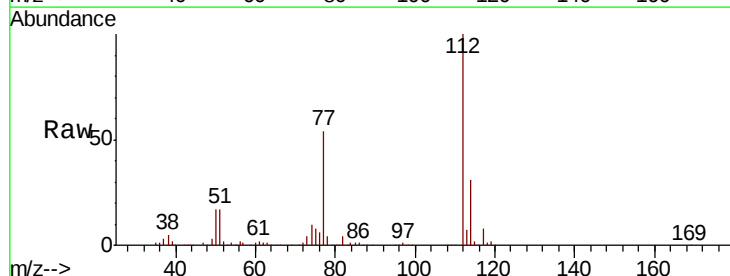
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

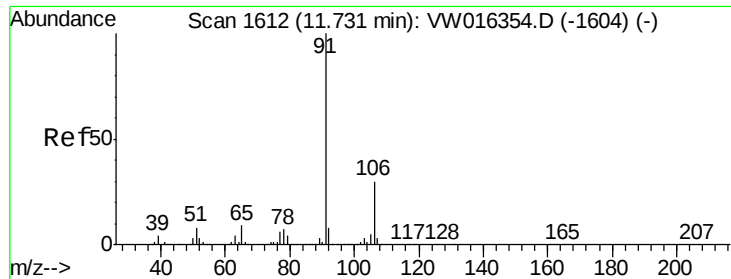
Tot Ion:107 Resp: 72528
Ion Ratio Lower Upper
107 100
109 98.1 65.7 121.9
188 3.8 3.3 4.9



#52
Chlorobenzene
Concen: 26.690 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion:112 Resp: 280593
Ion Ratio Lower Upper
112 100
77 53.7 46.9 70.3
114 31.0 23.3 43.3

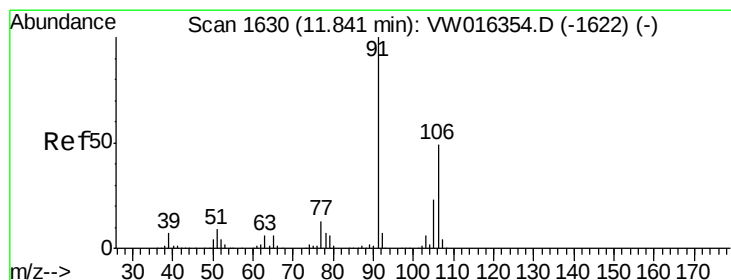
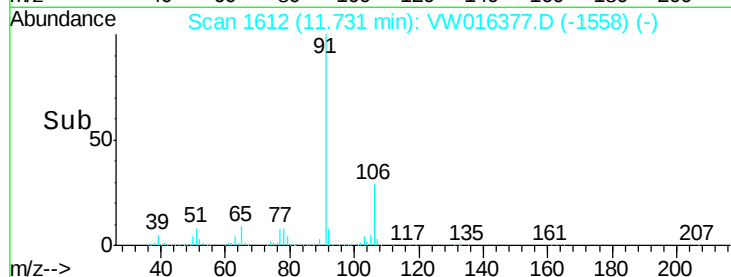
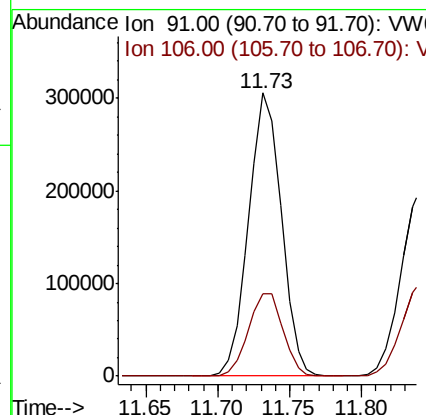
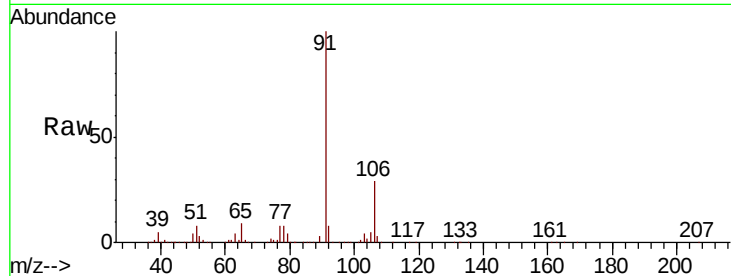




#53
Ethylbenzene
Concen: 26.666 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

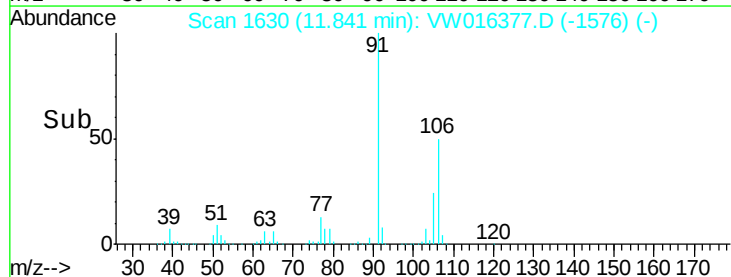
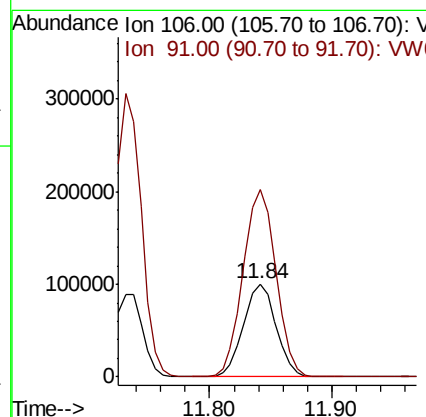
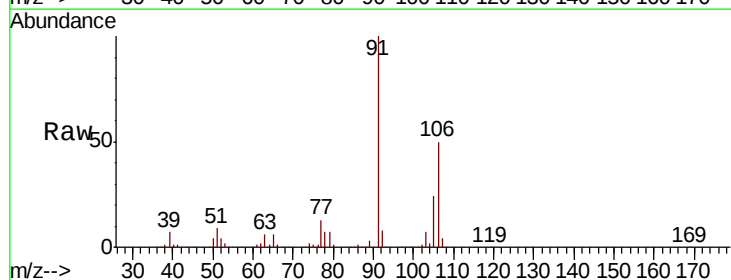
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

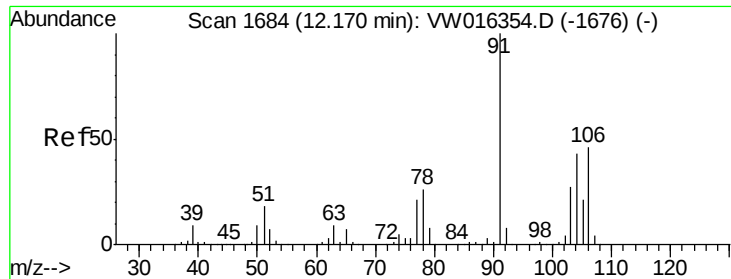
Tot Ion: 91 Resp: 482538
Ion Ratio Lower Upper
91 100
106 29.1 22.0 41.0



#54
m,p-Xylene
Concen: 26.745 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW016377.D
Acq: 26 Aug 2020 19:08

Tgt Ion: 106 Resp: 185992
Ion Ratio Lower Upper
106 100
91 201.0 138.8 257.8





#55

o-xylene

Concen: 26.802 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

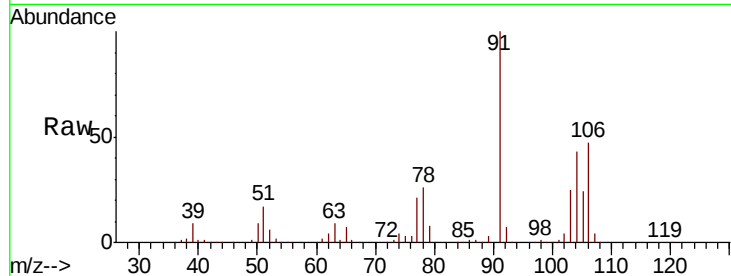
VSTD02528

Tot Ion:106 Resp: 175104

Ion Ratio Lower Upper

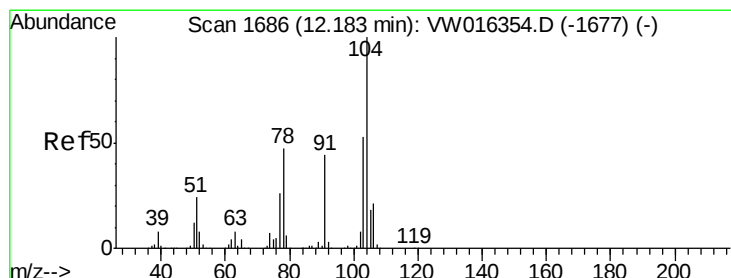
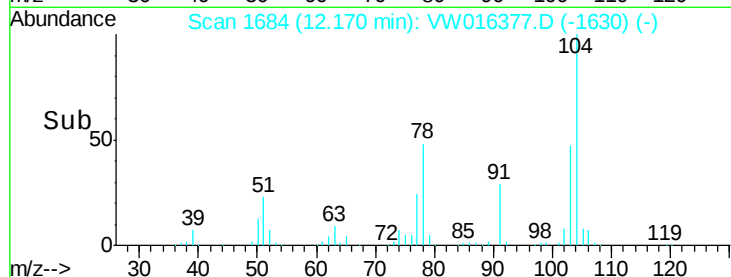
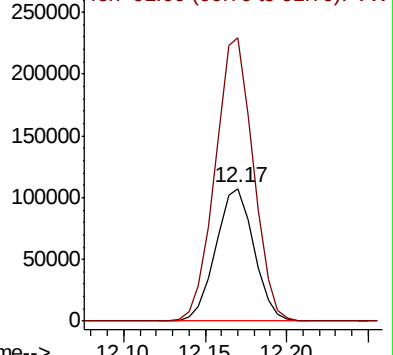
106 100

91 213.4 151.3 281.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.826 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016377.D

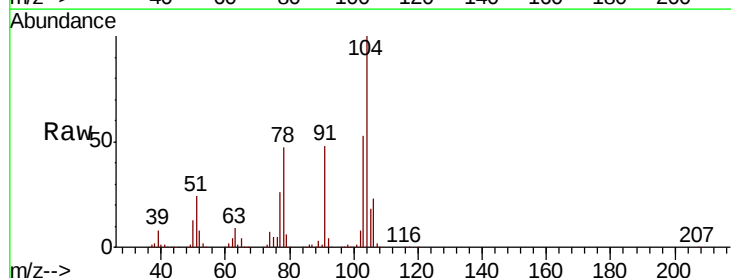
Acq: 26 Aug 2020 19:08

Tgt Ion:104 Resp: 305904

Ion Ratio Lower Upper

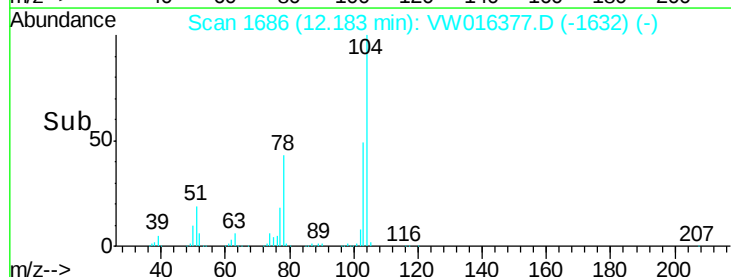
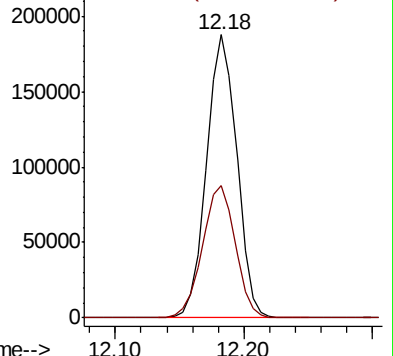
104 100

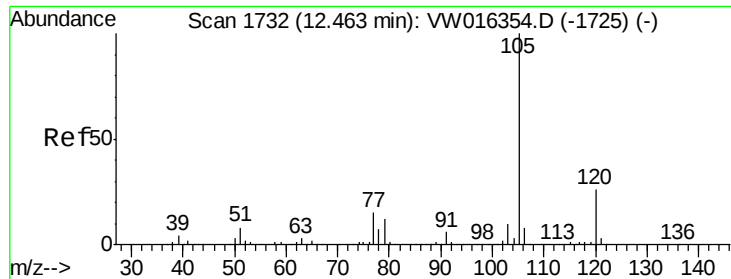
78 47.0 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.881 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

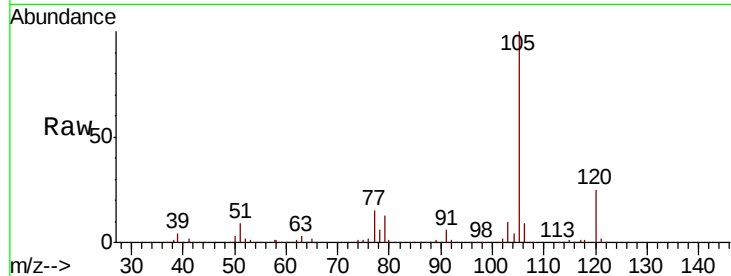
Tot Ion:105 Resp: 488889

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

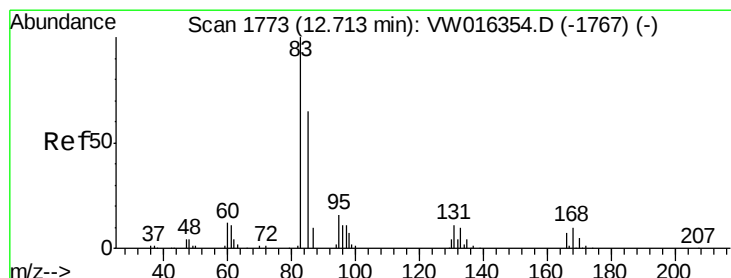
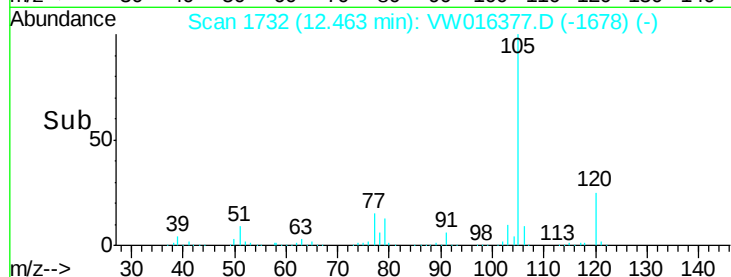
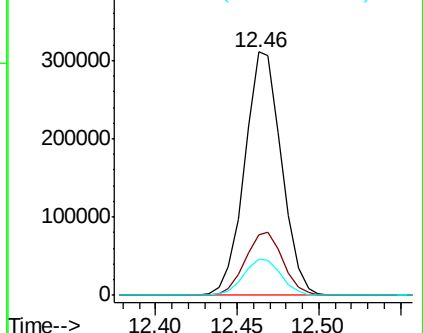
77 15.1 12.2 18.4



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: 26.007 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

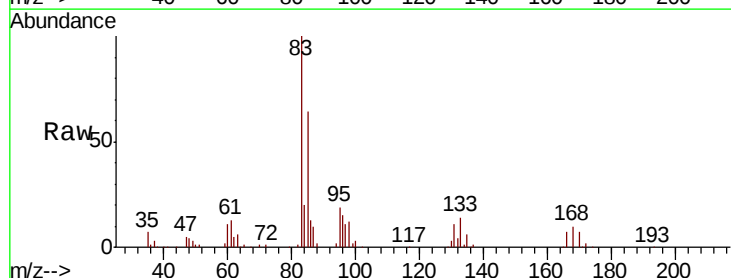
Tgt Ion: 83 Resp: 85143

Ion Ratio Lower Upper

83 100

85 63.7 46.0 85.4

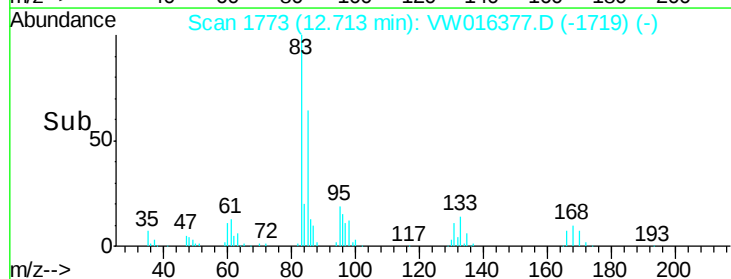
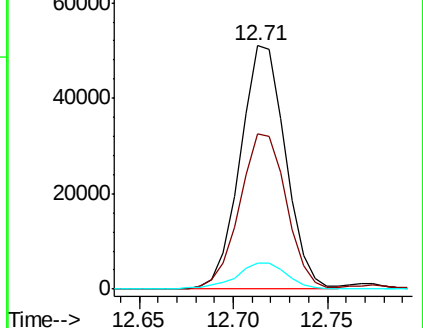
131 10.8 8.8 13.2

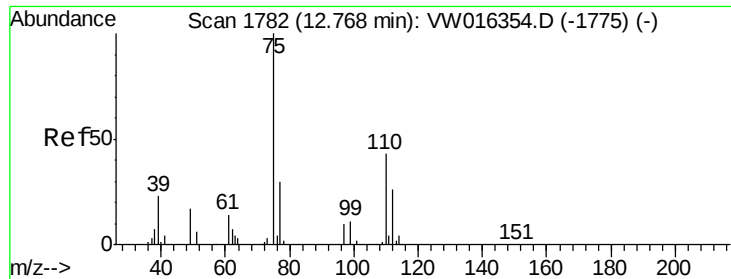


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.163 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

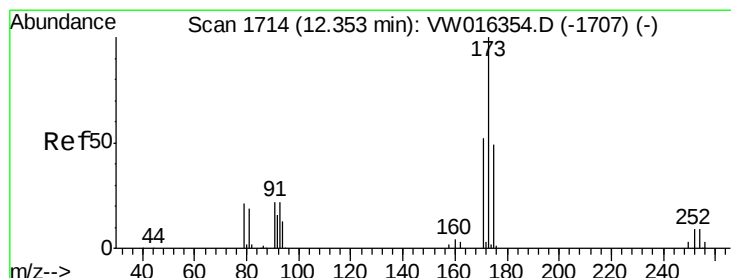
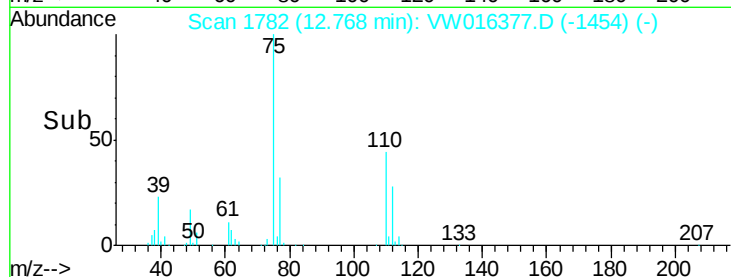
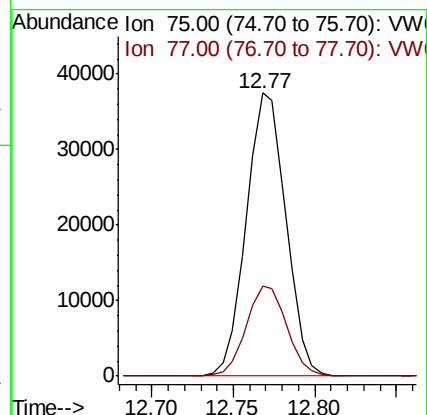
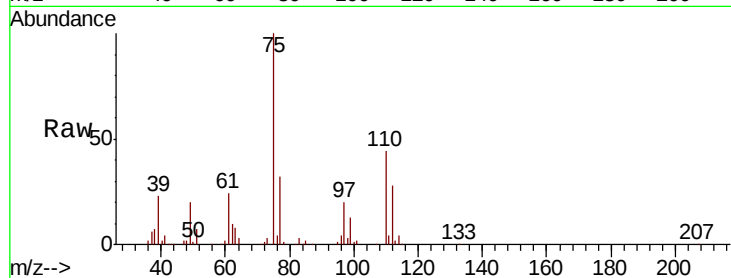
VSTD02528

Tot Ion: 75 Resp: 63436

Ion Ratio Lower Upper

75 100

77 32.4 27.1 40.7



#62

Bromoform

Concen: 25.190 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

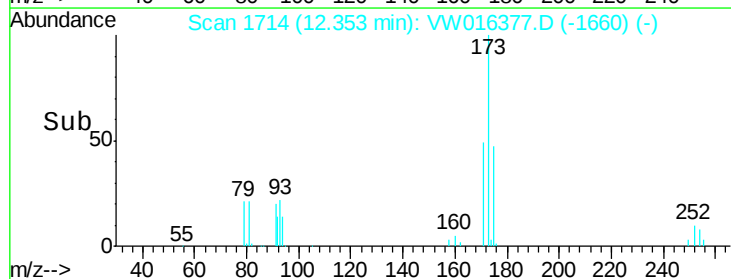
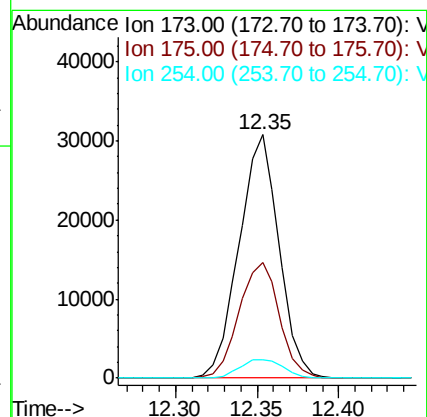
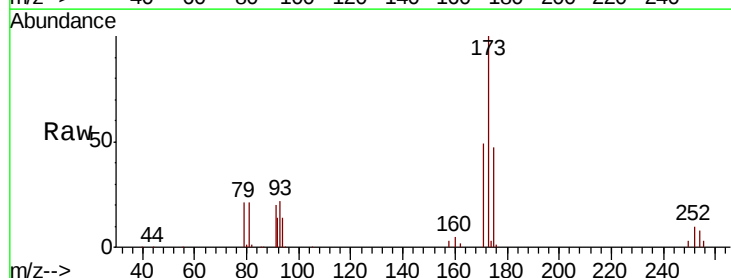
Tgt Ion: 173 Resp: 52370

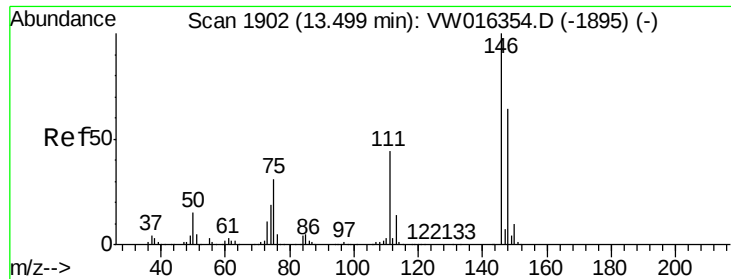
Ion Ratio Lower Upper

173 100

175 47.9 39.0 58.4

254 8.3 6.9 10.3

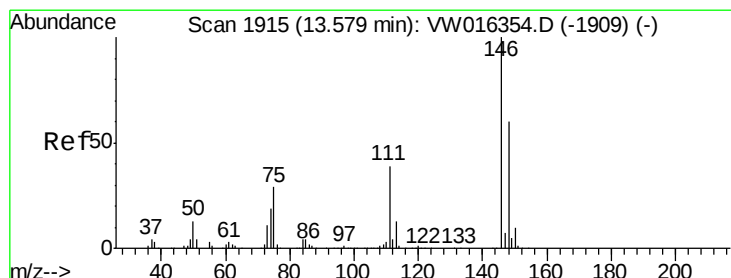
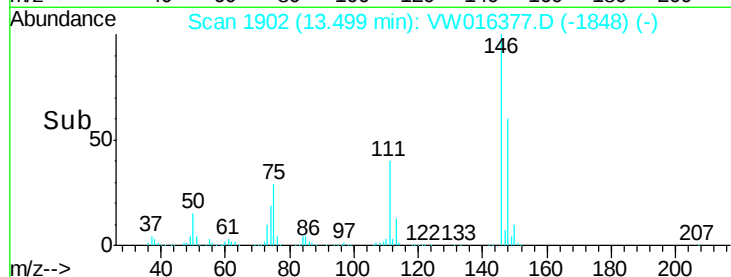
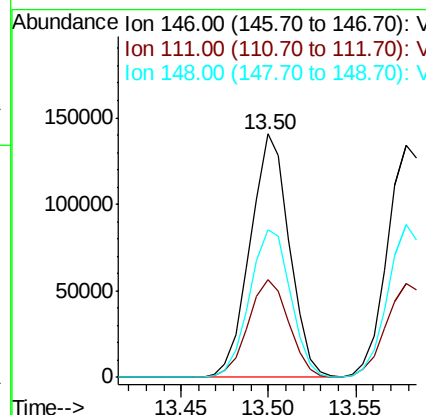
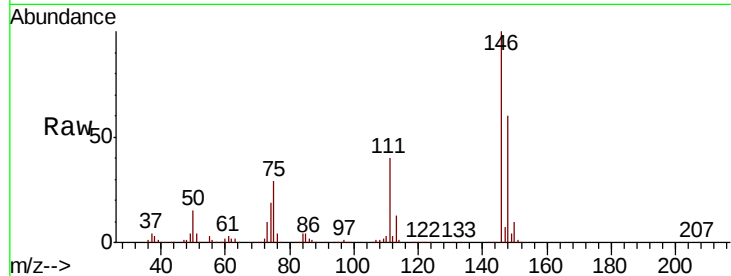




#63
 1,3-Dichlorobenzene
 Concen: 25.451 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

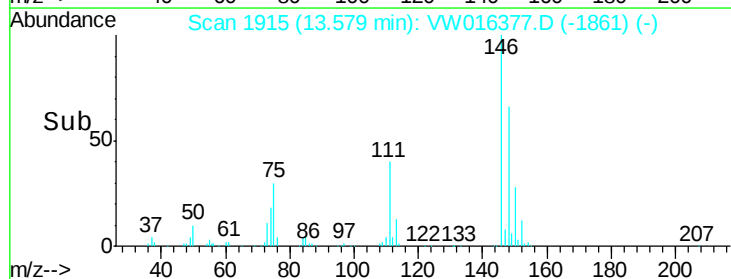
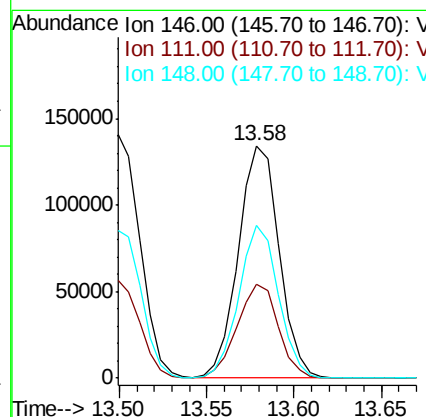
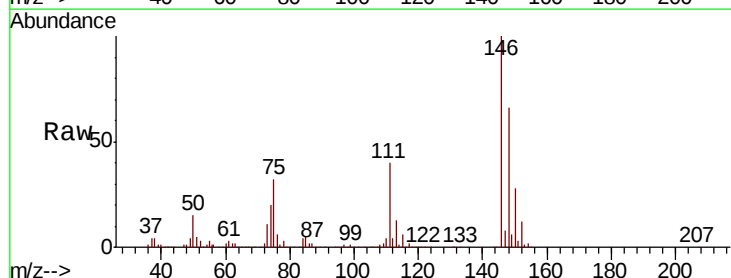
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

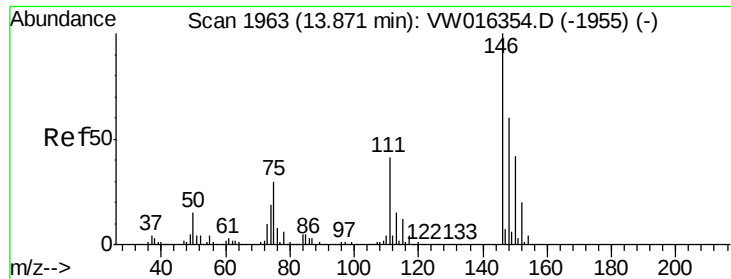
Tot Ion:146 Resp: 219404
 Ion Ratio Lower Upper
 146 100
 111 40.0 30.2 56.2
 148 60.4 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 24.866 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion:146 Resp: 217167
 Ion Ratio Lower Upper
 146 100
 111 40.5 28.0 52.0
 148 65.6 41.4 76.8

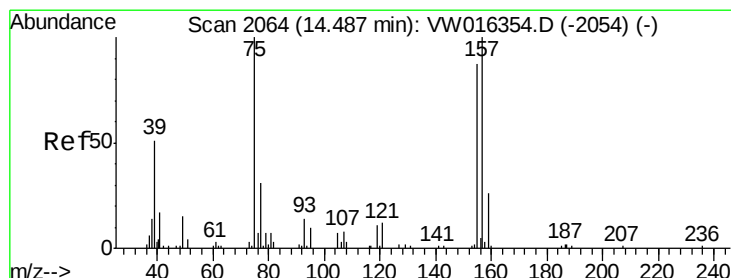
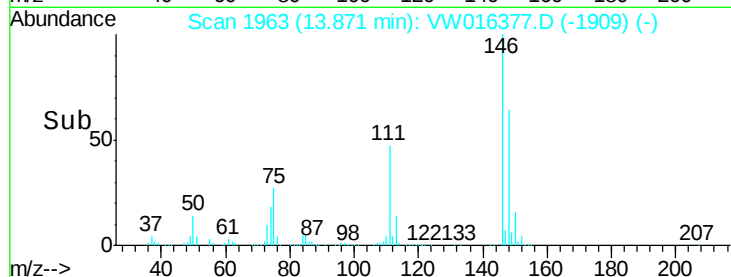
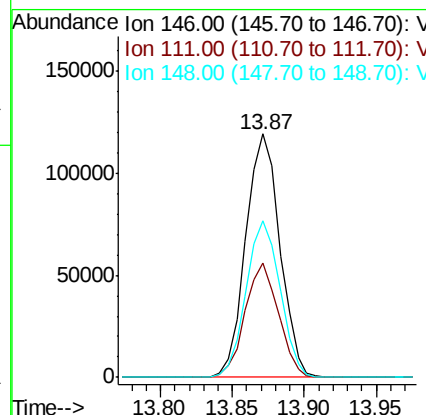
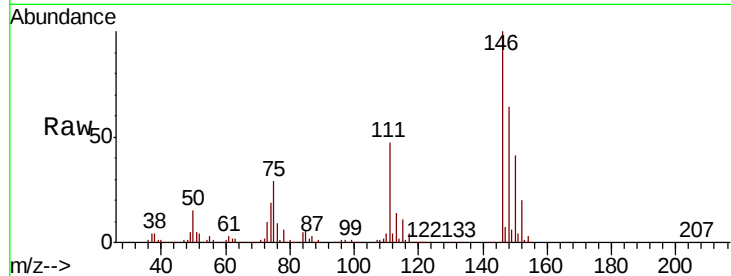




#65
 1,2-Dichlorobenzene
 Concen: 25.420 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

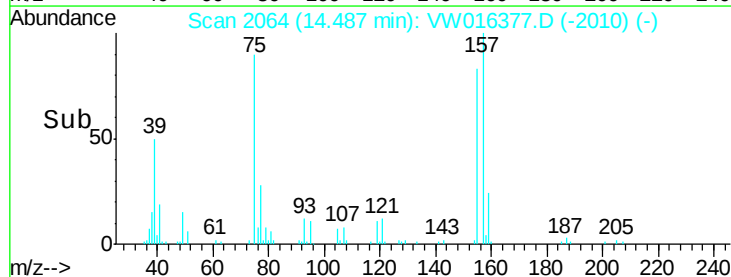
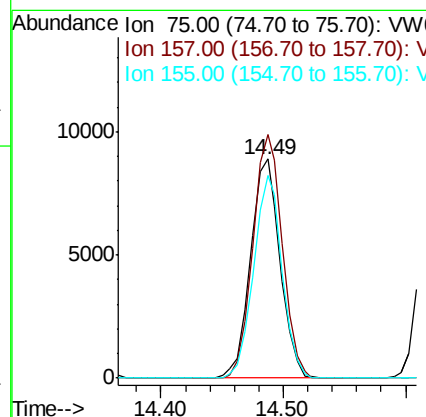
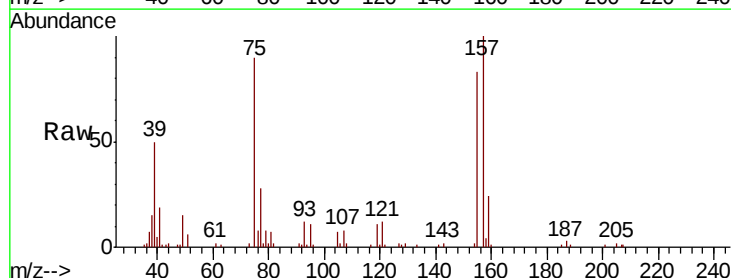
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

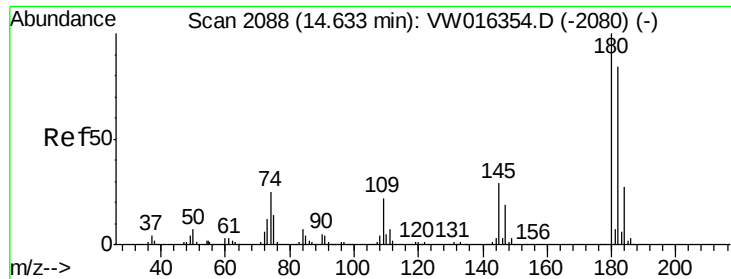
Tot Ion:146 Resp: 195677
 Ion Ratio Lower Upper
 146 100
 111 47.1 36.9 55.3
 148 64.2 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.636 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion: 75 Resp: 14908
 Ion Ratio Lower Upper
 75 100
 157 111.1 82.2 123.4
 155 92.6 66.8 100.2

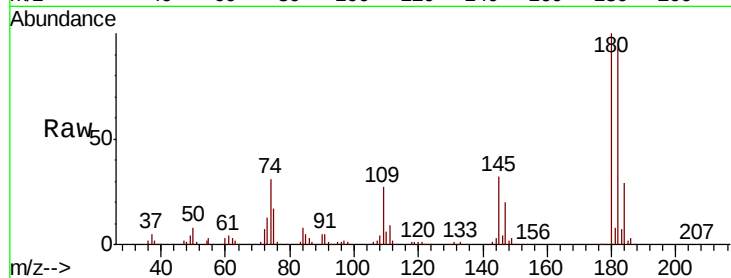




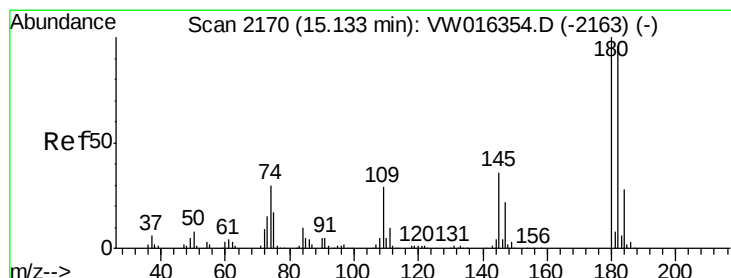
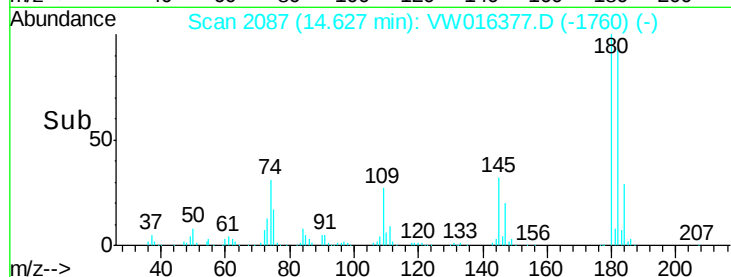
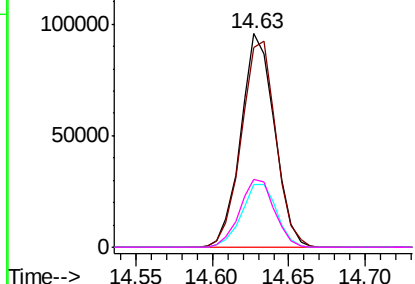
#67
 1,3,5-Trichlorobenzene
 Concen: 24.601 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Tot Ion:	180	Resp:	146357
Ion	Ratio	Lower	Upper
180	100		
182	98.4	77.4	116.2
184	30.8	24.4	36.6
145	32.8	25.6	38.4

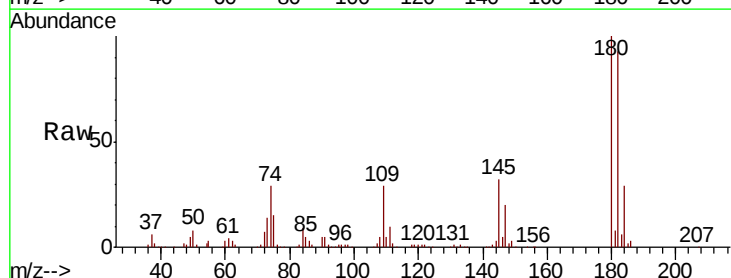


Abundance Ion 180.00 (179.70 to 180.70): V
 150000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

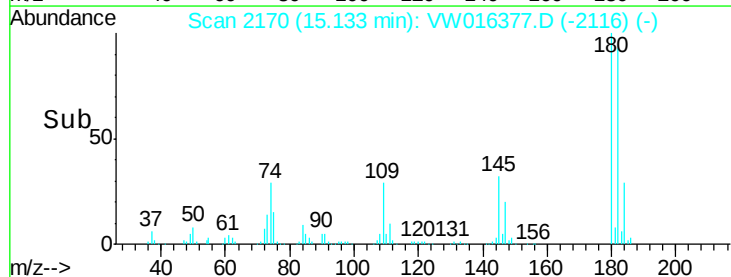
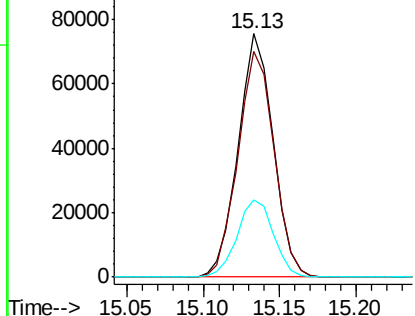


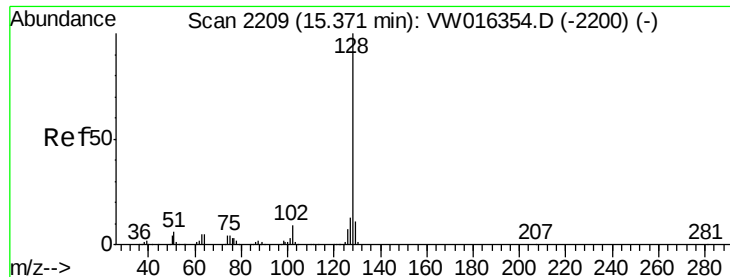
#68
 1,2,4-trichlorobenzene
 Concen: 25.436 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016377.D
 Acq: 26 Aug 2020 19:08

Tgt Ion:	180	Resp:	120110
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.5	114.7
145	33.0	26.0	39.0



Abundance Ion 180.00 (179.70 to 180.70): V
 100000
 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: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

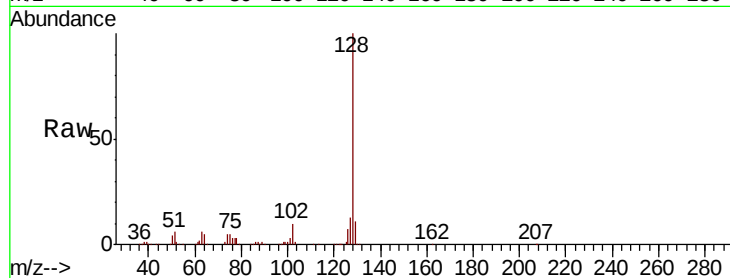
Tot Ion:128 Resp: 244825

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

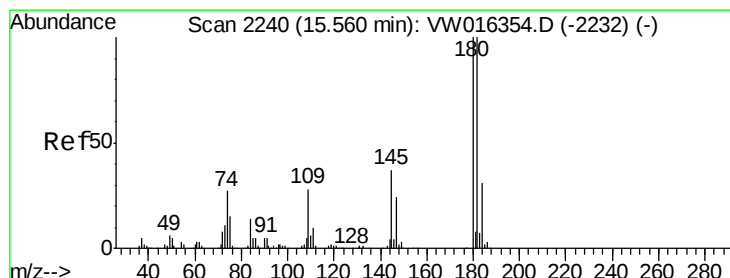
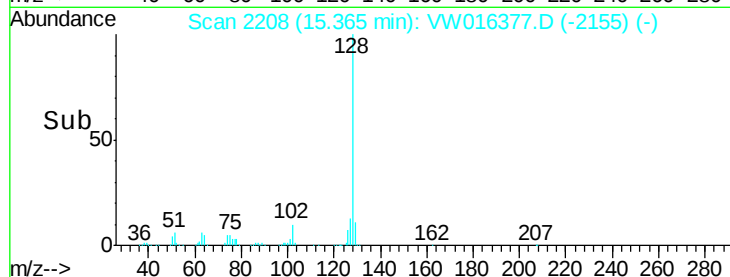
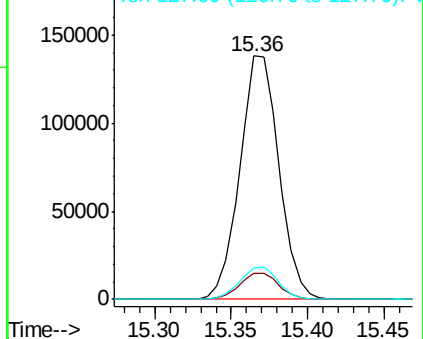
127 13.3 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.672 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW016377.D

Acq: 26 Aug 2020 19:08

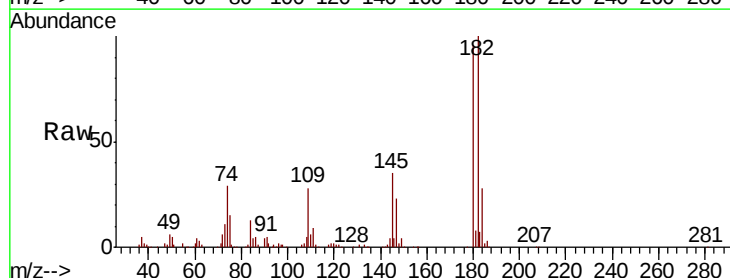
Tgt Ion:180 Resp: 106616

Ion Ratio Lower Upper

180 100

182 98.6 77.0 115.4

145 36.4 28.6 42.8



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

