

Data File : VR026232.D
Acq On : 20 Nov 2018 15:46
Operator : SY/MD
Sample : VSTD00189
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

Quant Time: Nov 20 17:08:08 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR112018WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 20 17:01:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	626554	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	514077	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	192272	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	52103	1.13	ug/L	0.00
7) Chloroethane-d5	2.63	69	48341	1.12	ug/L	0.00
11) 1,1-Dichloroethene-d2	3.63	63	132722	1.09	ug/L	0.02
20) 2-Butanone-d5	6.59	46	40852	10.16	ug/L	0.00
24) Chloroform-d	7.20	84	98655	1.20	ug/L	0.00
26) 1,2-Dichloroethane-d4	7.90	65	38011	1.17	ug/L	0.00
32) Benzene-d6	7.85	84	181473	1.23	ug/L	0.00
36) 1,2-Dichloropropane-d6	8.90	67	47228	1.21	ug/L	0.00
41) Toluene-d8	9.97	98	167600	1.23	ug/L	0.00
43) trans-1,3-Dichloropropene-	10.24	79	11507	1.17	ug/L	0.00
46) 2-Hexanone-d5	10.59	63	23836	8.35	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	12.36	84	19386	1.20	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	13.52	152	32523	1.16	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.84	85	43981	1.106 ug/L	90
3) Chloromethane	2.01	50	63287	0.928 ug/L	96
5) Vinyl chloride	2.16	62	63005	0.937 ug/L	100
6) Bromomethane	2.53	94	40040	0.895 ug/L	94
8) Chloroethane	2.66	64	36688	0.864 ug/L	96
9) Trichlorofluoromethane	2.94	101	32439	0.359 ug/L #	10
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	50770	0.978 ug/L	99
12) 1,1-Dichloroethene	3.64	96	55371	0.904 ug/L	85
13) Acetone	3.71	43	33623	7.914 ug/L	98
14) Carbon disulfide	3.94	76	128902	0.773 ug/L	98
15) Methyl Acetate	4.20	43	8818	0.798 ug/L	94
16) Methylene chloride	4.41	84	53812	1.043 ug/L	98
17) Methyl tert-butyl Ether	4.90	73	51190	0.988 ug/L	95
18) trans-1,2-Dichloroethene	4.89	96	48208	1.021 ug/L	93
19) 1,1-Dichloroethane	5.70	63	91802	1.061 ug/L	95
21) 2-Butanone	6.69	43	45013	9.173 ug/L	99
22) cis-1,2-Dichloroethene	6.68	96	42749	1.023 ug/L #	96
23) Bromochloromethane	7.06	128	13214	1.036 ug/L	86
25) Chloroform	7.23	83	102785	1.217 ug/L	99
27) 1,2-Dichloroethane	7.99	62	41236	1.052 ug/L	98
29) 1,1,1-Trichloroethane	7.43	97	76791	1.116 ug/L	96
30) Cyclohexane	7.52	56	56192	0.932 ug/L	98
31) Carbon tetrachloride	7.64	117	68400	1.120 ug/L	100
33) Benzene	7.91	78	192826	1.039 ug/L	100
34) Trichloroethene	8.71	95	51895	1.098 ug/L	95
35) Methylcyclohexane	8.96	83	57300	0.932 ug/L	89
37) 1,2-Dichloropropane	8.99	63	39980	1.027 ug/L	98
38) Bromodichloromethane	9.28	83	48439	1.115 ug/L	97
39) cis-1,3-Dichloropropene	9.72	75	39242	0.892 ug/L	93
40) 4-Methyl-2-pentanone	9.87	43	100217	9.113 ug/L	97

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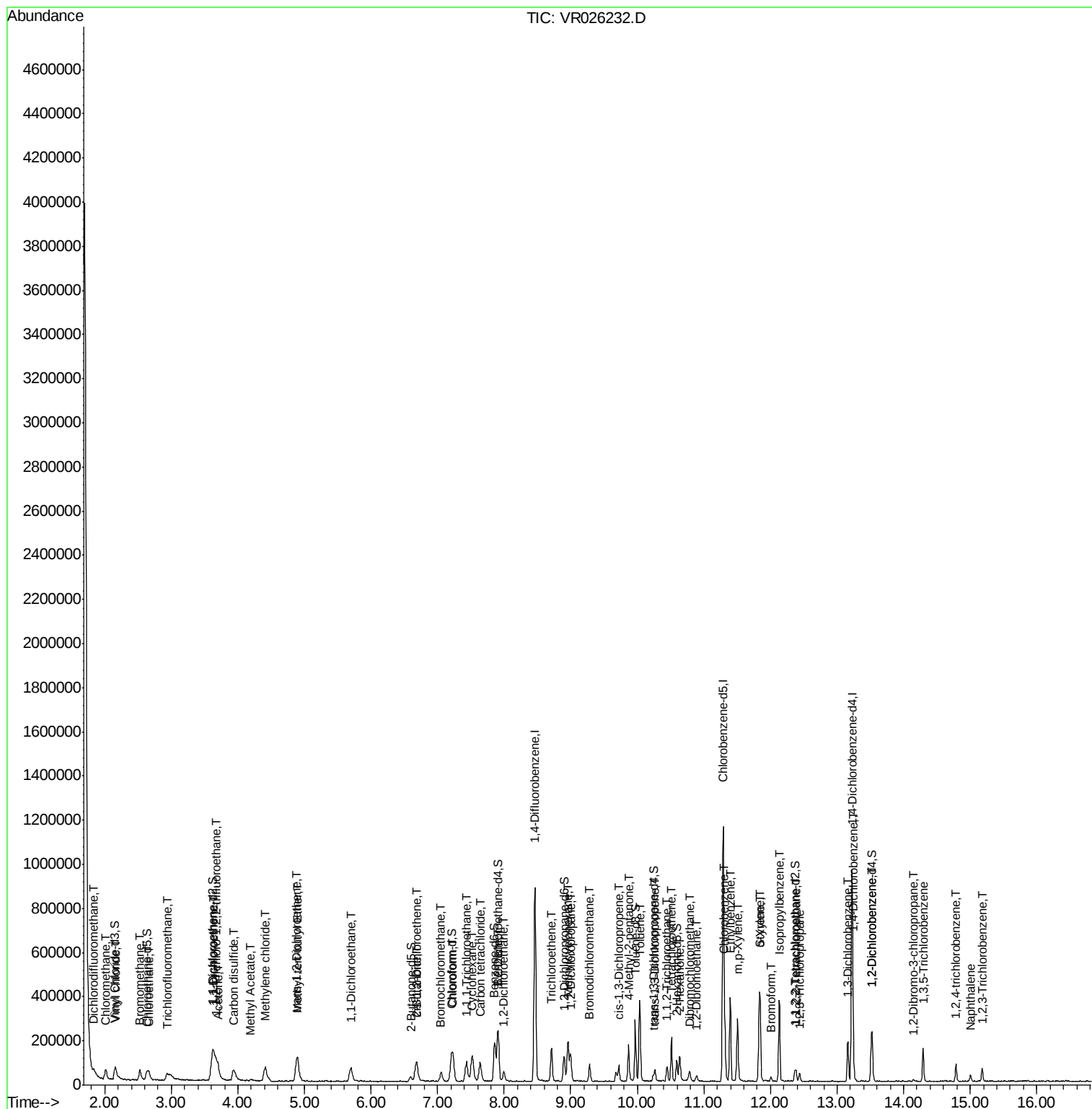
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	10.04	91	226190	1.170	ug/L	99
44) trans-1,3-Dichloropropene	10.26	75	26999	0.920	ug/L	91
45) 1,1,2-Trichloroethane	10.45	97	17455	1.039	ug/L	93
47) Tetrachloroethene	10.51	164	37034	1.147	ug/L	93
48) 2-Hexanone	10.63	43	69155	9.325	ug/L	97
49) Dibromochloromethane	10.78	129	19741	0.992	ug/L	96
50) 1,2-Dibromoethane	10.89	107	14776	1.037	ug/L #	97
51) Chlorobenzene	11.32	112	111932	1.042	ug/L	97
52) Ethylbenzene	11.39	91	222992	1.017	ug/L	98
53) m,p-Xylene	11.50	106	79028	0.993	ug/L	92
54) o-Xylene	11.83	106	66563	0.916	ug/L	98
55) Styrene	11.84	104	108666	0.963	ug/L	99
56) Isopropylbenzene	12.13	105	195031	0.994	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.39	83	17060	1.051	ug/L #	99
59) 1,2,3-Trichloropropane	12.43	75	13267	1.086	ug/L	100
61) Bromoform	12.01	173	7594	0.999	ug/L	97
62) 1,3-Dichlorobenzene	13.16	146	62442	1.073	ug/L	92
63) 1,4-Dichlorobenzene	13.24	146	70009	1.094	ug/L	99
65) 1,2-Dichlorobenzene	13.53	146	50614	1.037	ug/L	92
66) 1,2-Dibromo-3-chloropropan	14.14	75	1733	0.957	ug/L #	85
67) 1,3,5-Trichlorobenzene	14.30	180	37818	1.043	ug/L	98
68) 1,2,4-trichlorobenzene	14.79	180	20908	1.033	ug/L	94
69) Naphthalene	15.00	128	17578	0.823	ug/L #	96
70) 1,2,3-Trichlorobenzene	15.18	180	15747	1.112	ug/L	99

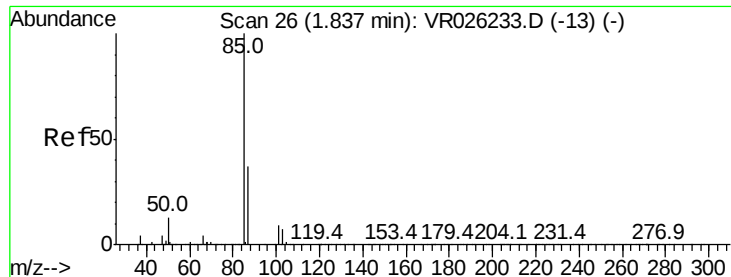
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.106 ug/L

RT: 1.84 min Scan# 26

Delta R.T. -0.00 min

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Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

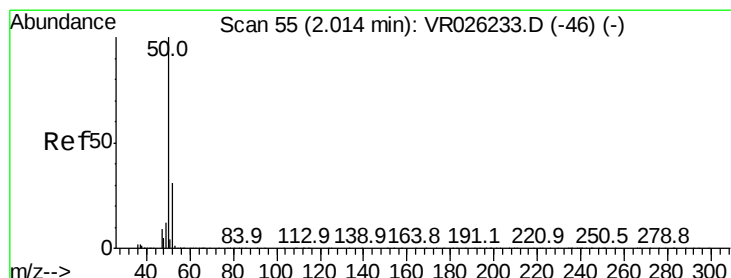
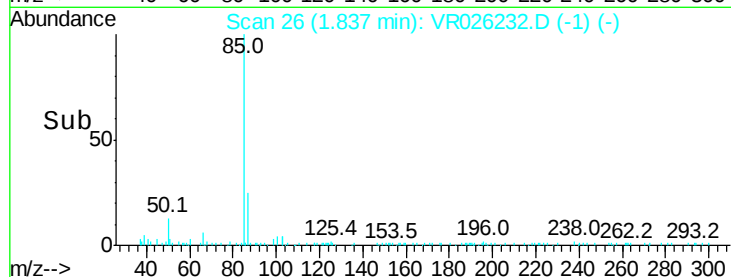
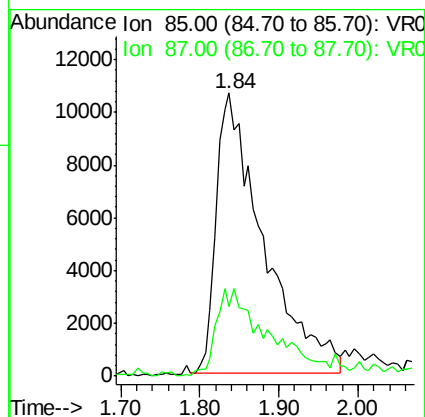
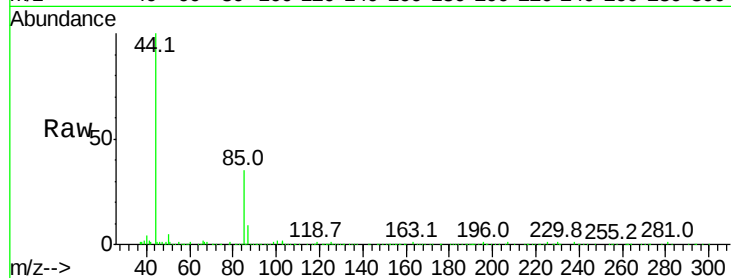
VSTD00189

Tgt Ion: 85 Resp: 43981

Ion Ratio Lower Upper

85 100

87 34.4 23.2 34.8



#3

Chloromethane

Concen: 0.928 ug/L

RT: 2.01 min Scan# 55

Delta R.T. -0.00 min

Lab File: VR026232.D

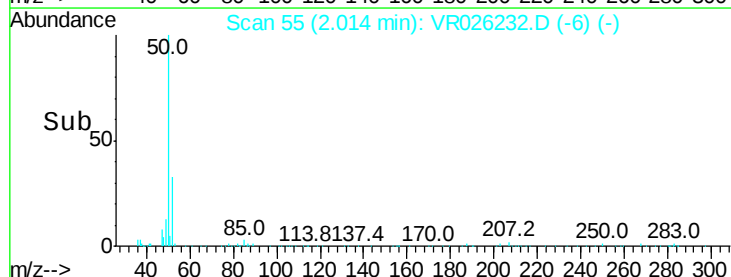
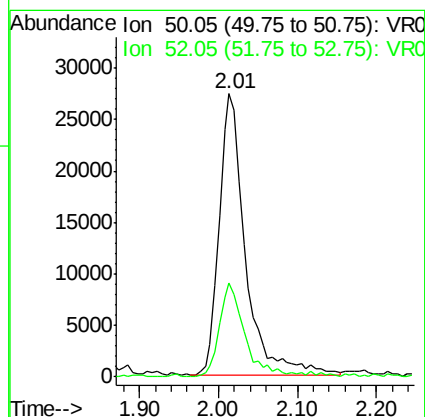
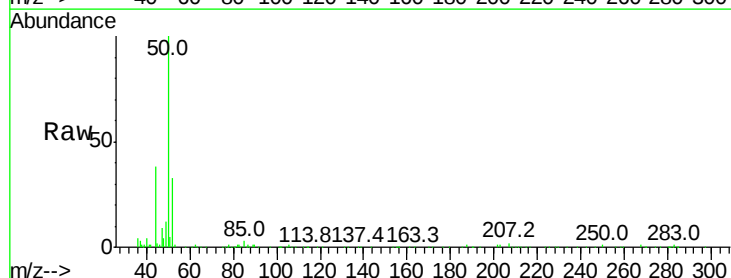
Acq: 20 Nov 2018 15:46

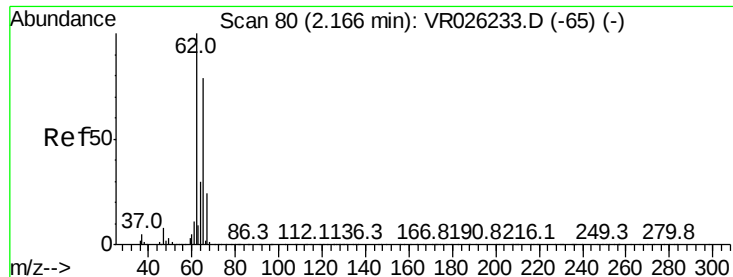
Tgt Ion: 50 Resp: 63287

Ion Ratio Lower Upper

50 100

52 33.1 21.4 39.8





#5

Vinyl chloride

Concen: 0.937 ug/L

RT: 2.16 min Scan# 79

Delta R.T. -0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

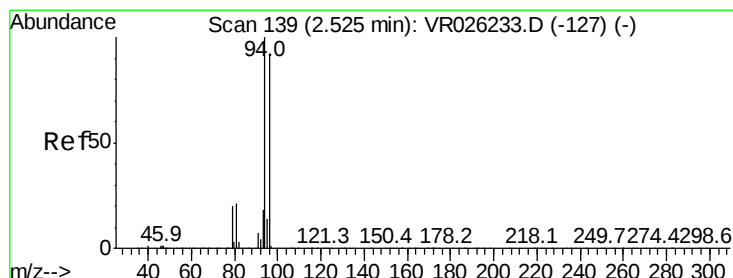
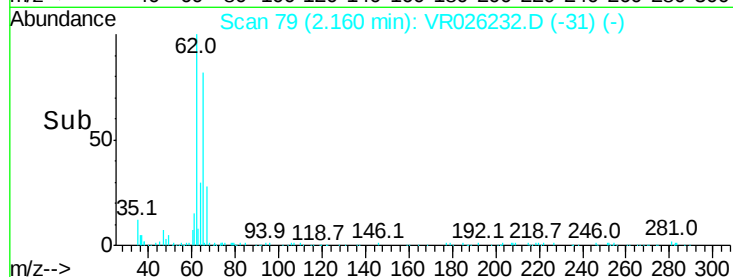
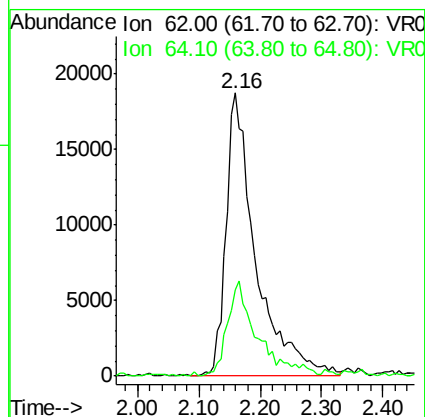
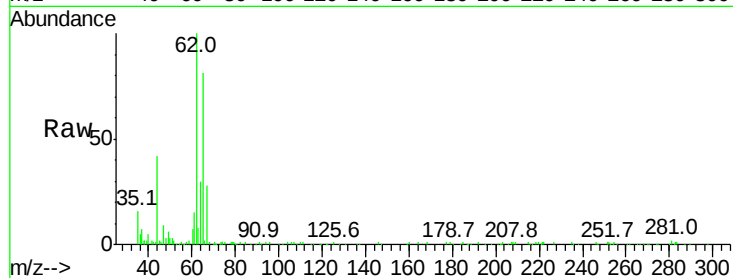
VSTD00189

Tgt Ion: 62 Resp: 63005

Ion Ratio Lower Upper

62 100

64 30.5 21.3 39.5



#6

Bromomethane

Concen: 0.895 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.01 min

Lab File: VR026232.D

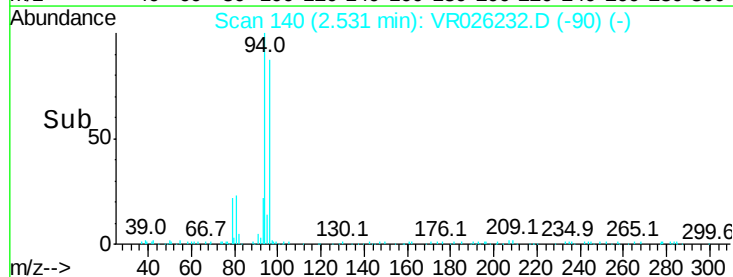
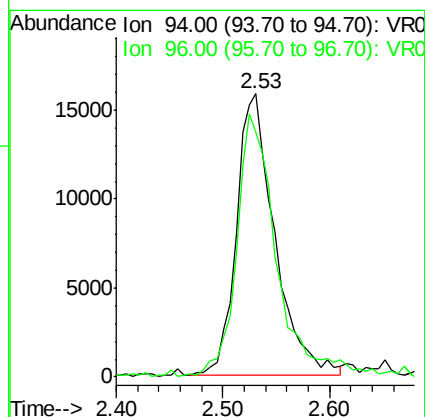
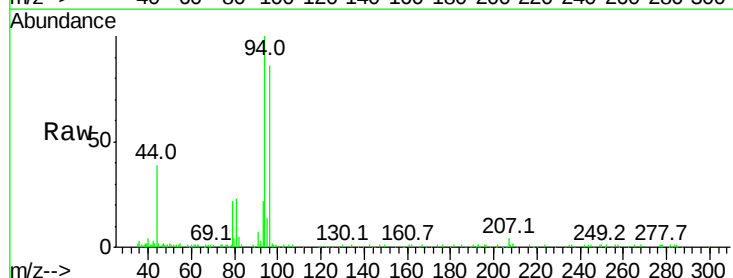
Acq: 20 Nov 2018 15:46

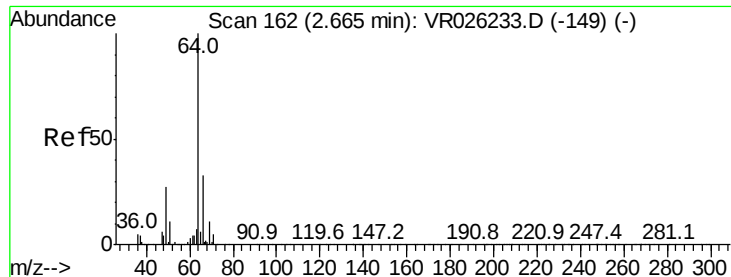
Tgt Ion: 94 Resp: 40040

Ion Ratio Lower Upper

94 100

96 86.4 64.6 120.0

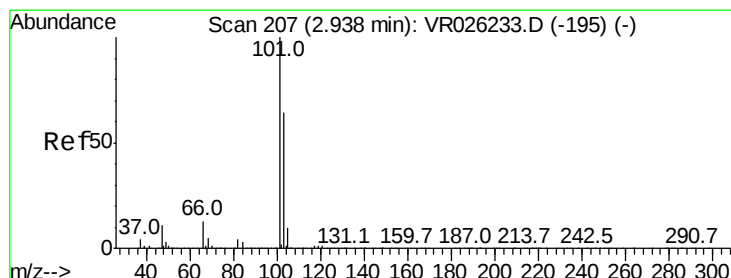
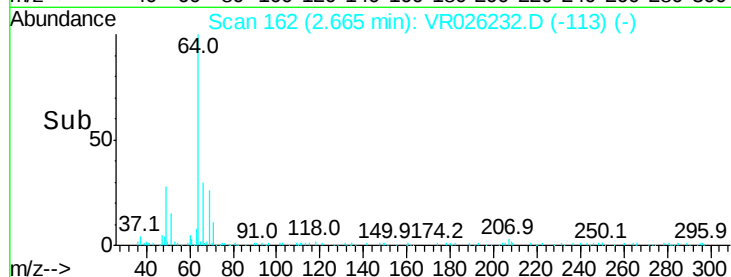
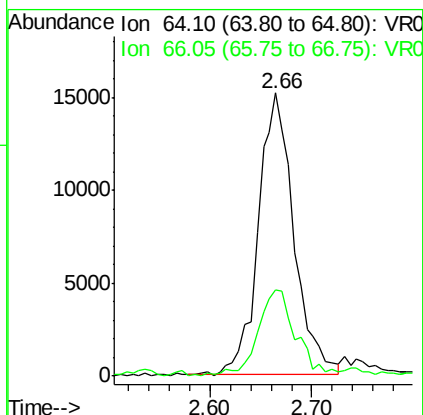
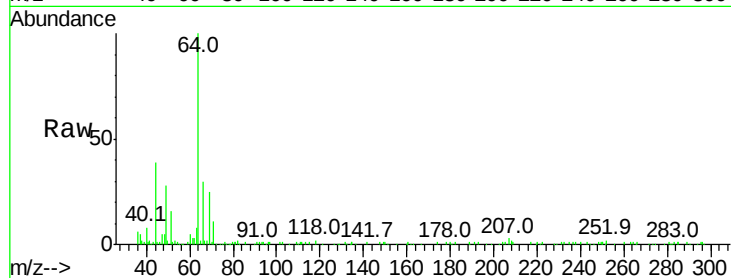




#8
Chloroethane
Concen: 0.864 ug/L
RT: 2.66 min Scan# 162
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

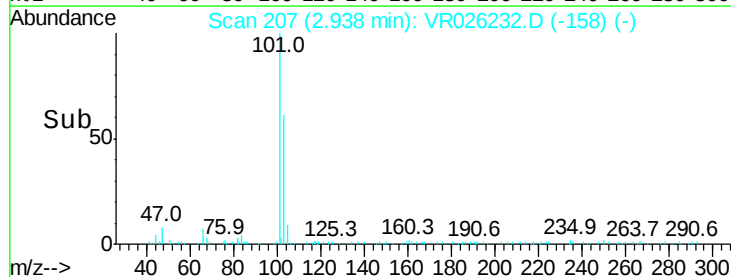
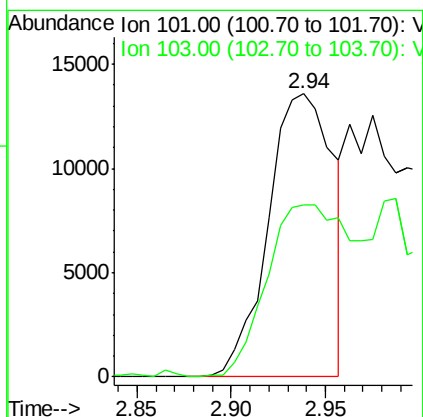
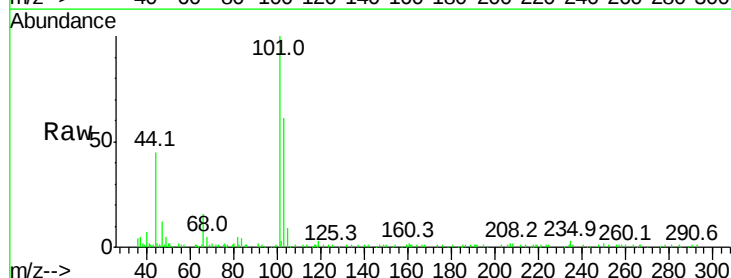
Instrument :
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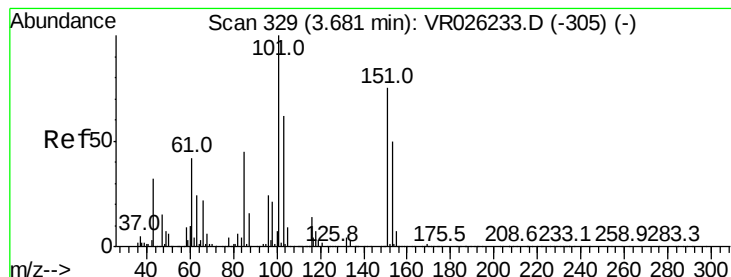
Tgt Ion: 64 Resp: 36688
Ion Ratio Lower Upper
64 100
66 30.4 22.7 42.3



#9
Trichlorofluoromethane
Concen: 0.359 ug/L
RT: 2.94 min Scan# 207
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion: 101 Resp: 32439
Ion Ratio Lower Upper
101 100
103 79.9 24.6 37.0#





#10

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

Concen: 0.978 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

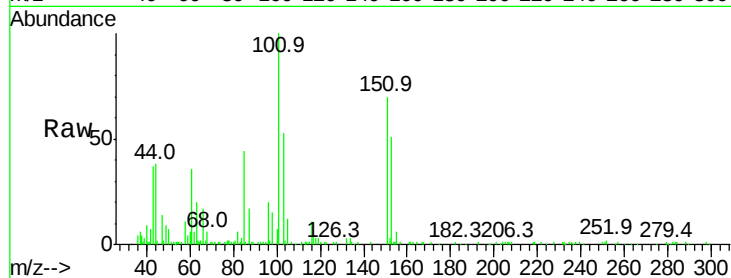
Tgt Ion: 101 Resp: 50770

Ion Ratio Lower Upper

101 100

85 45.9 37.4 56.0

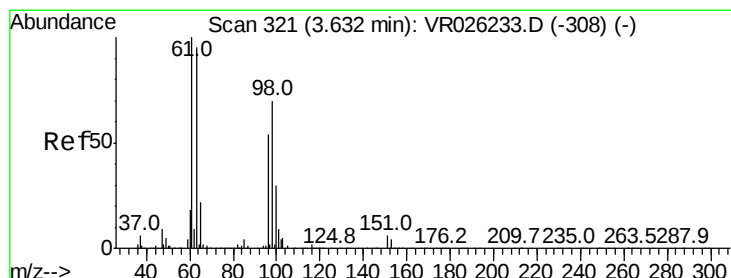
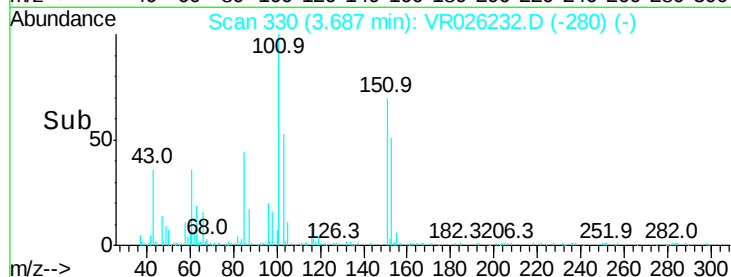
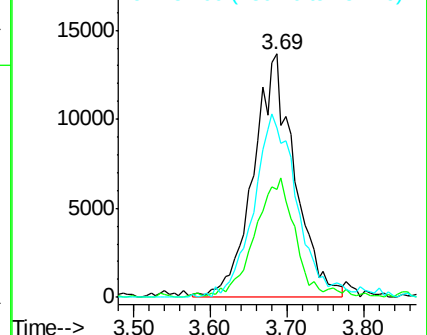
151 80.3 63.3 94.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.904 ug/L

RT: 3.64 min Scan# 322

Delta R.T. 0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

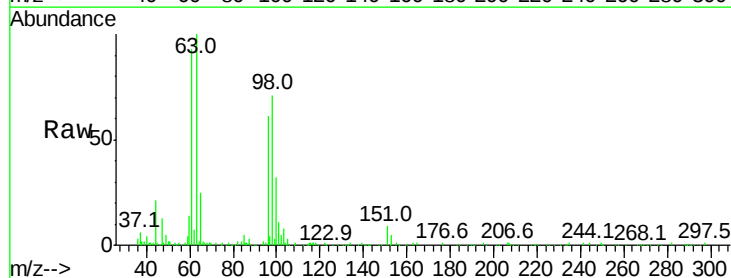
Tgt Ion: 96 Resp: 55371

Ion Ratio Lower Upper

96 100

61 152.8 128.7 239.1

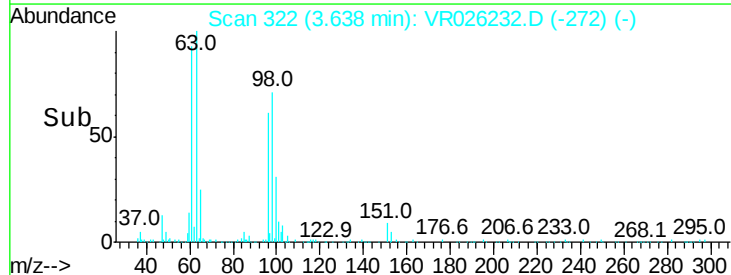
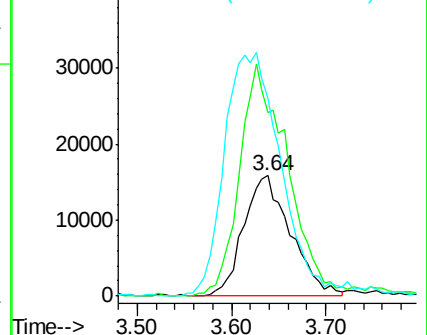
63 164.6 122.6 227.6

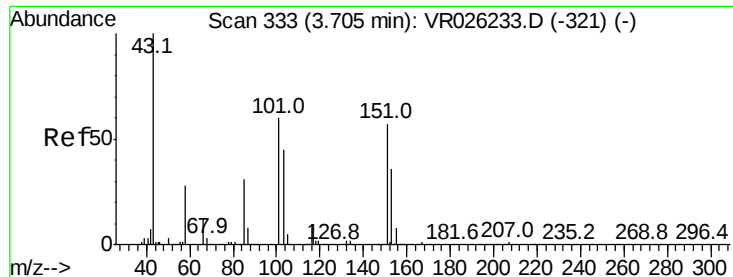


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 7.914 ug/L

RT: 3.71 min Scan# 334

Delta R.T. 0.01 min

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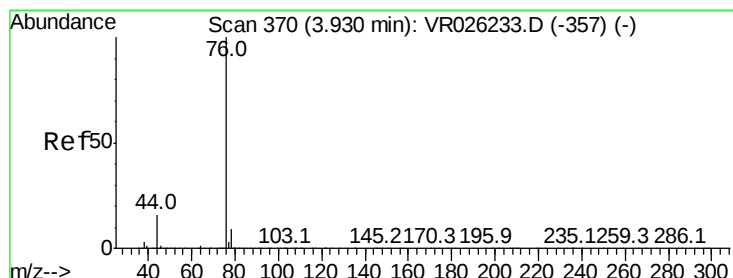
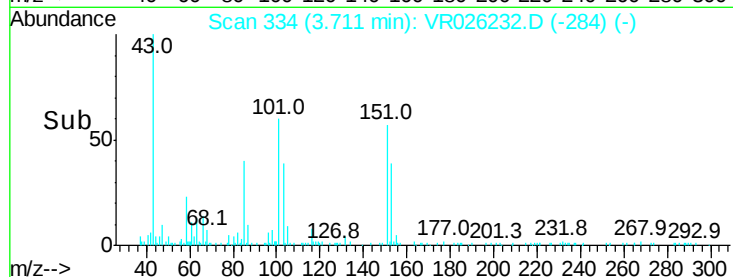
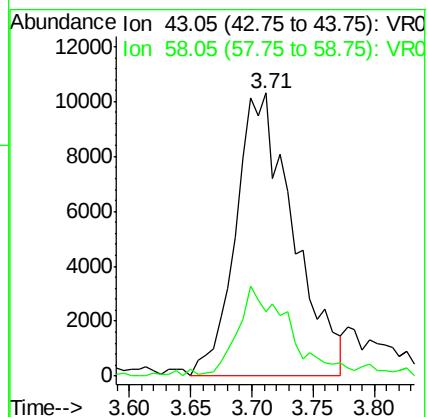
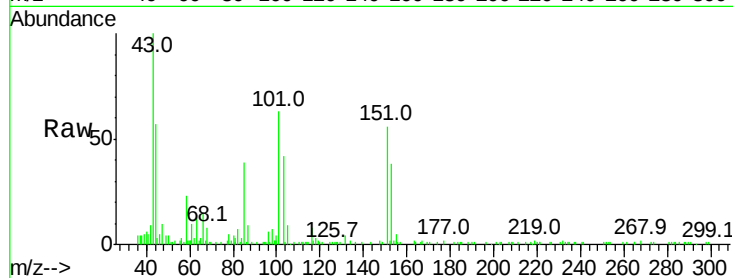
VSTD00189

Tgt Ion: 43 Resp: 33623

Ion Ratio Lower Upper

43 100

58 28.4 0.0 55.0



#14

Carbon disulfide

Concen: 0.773 ug/L

RT: 3.94 min Scan# 371

Delta R.T. 0.01 min

Lab File: VR026232.D

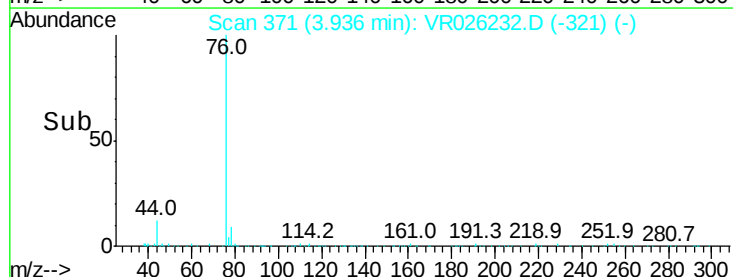
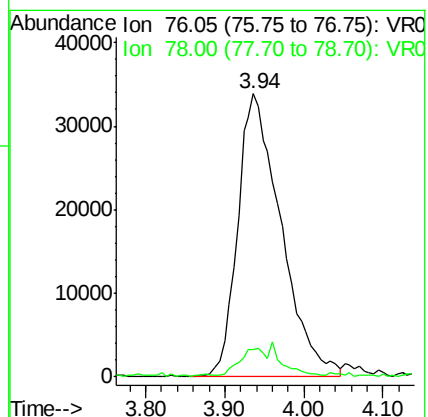
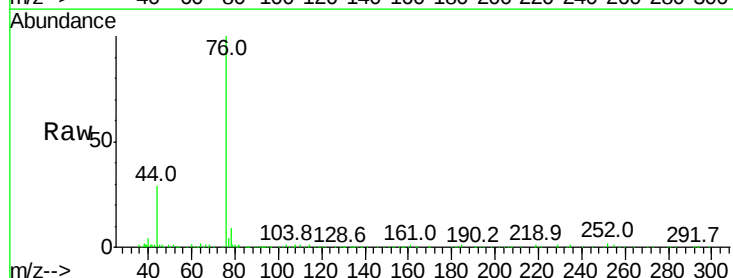
Acq: 20 Nov 2018 15:46

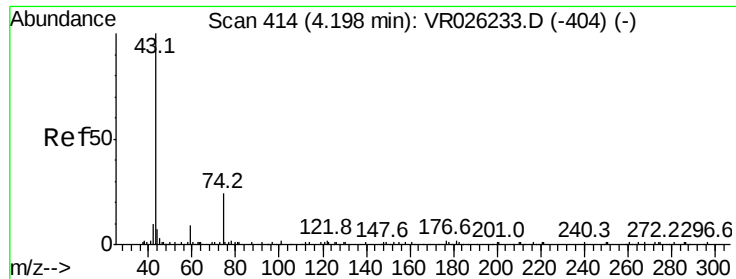
Tgt Ion: 76 Resp: 128902

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6

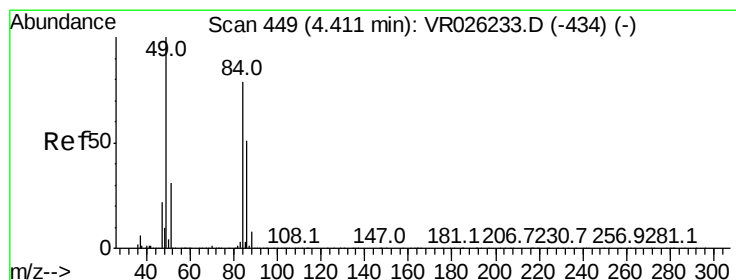
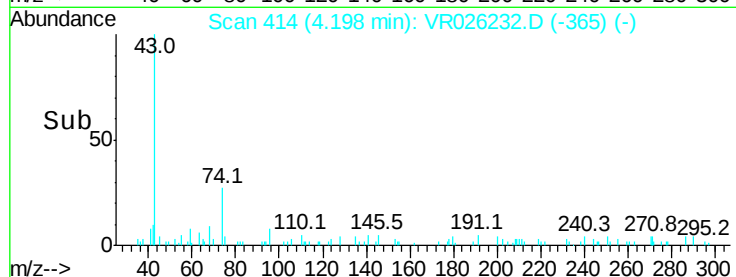
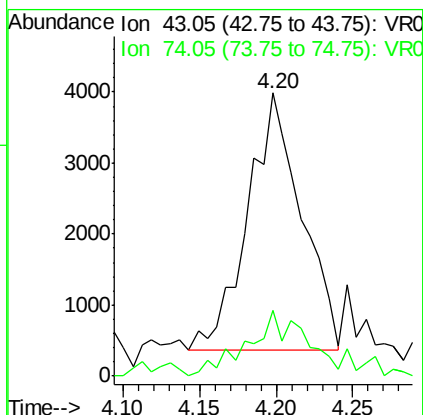
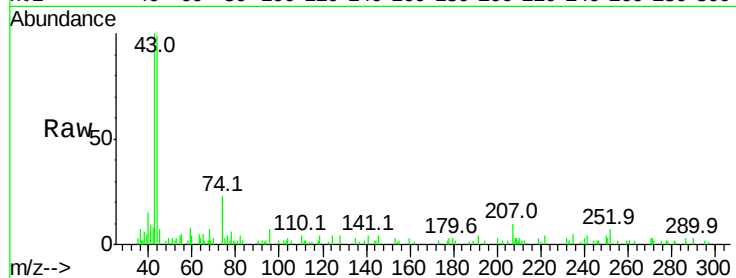




#15
Methyl Acetate
Concen: 0.798 ug/L
RT: 4.20 min Scan# 414
Delta R.T. 0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

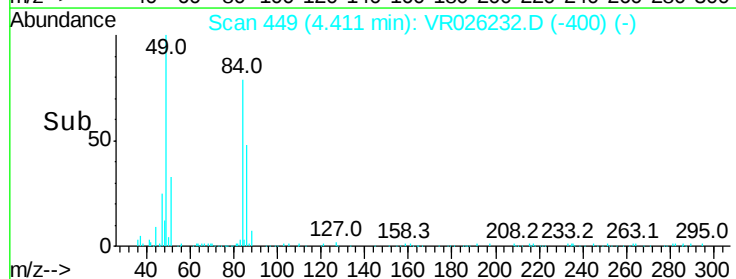
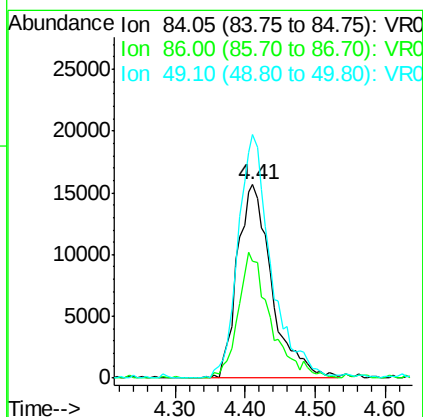
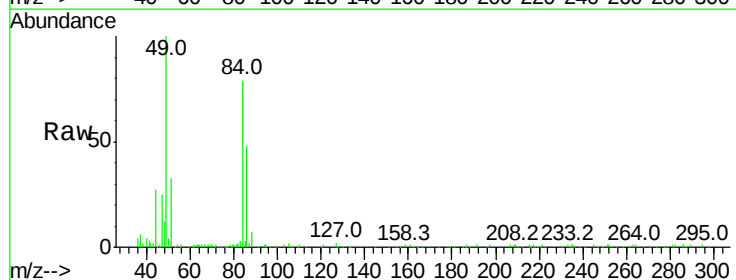
Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

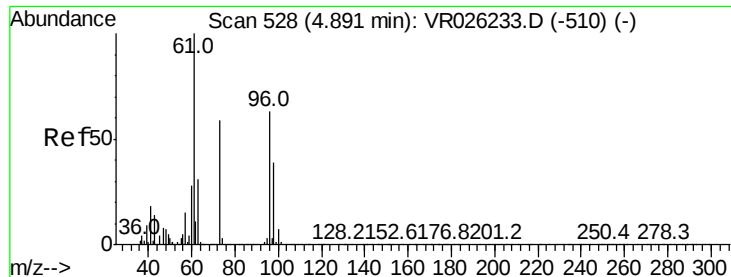
Tgt Ion: 43 Resp: 8818
Ion Ratio Lower Upper
43 100
74 27.2 19.4 29.0



#16
Methylene chloride
Concen: 1.043 ug/L
RT: 4.41 min Scan# 449
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion: 84 Resp: 53812
Ion Ratio Lower Upper
84 100
86 60.2 45.2 84.0
49 125.9 88.3 164.1





#17

Methyl tert-butyl Ether

Concen: 0.988 ug/L

RT: 4.90 min Scan# 529

Delta R.T. 0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

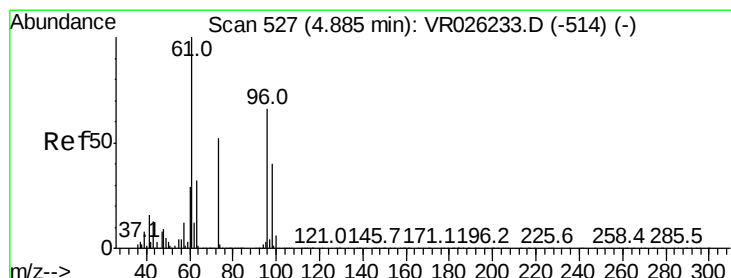
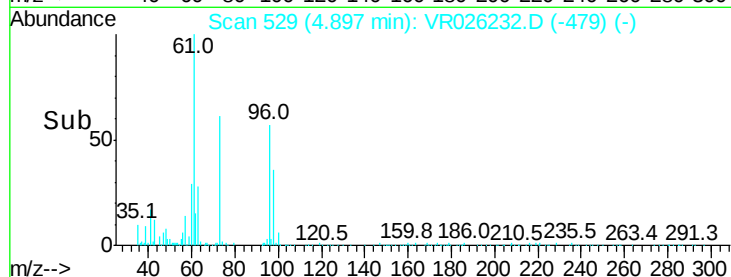
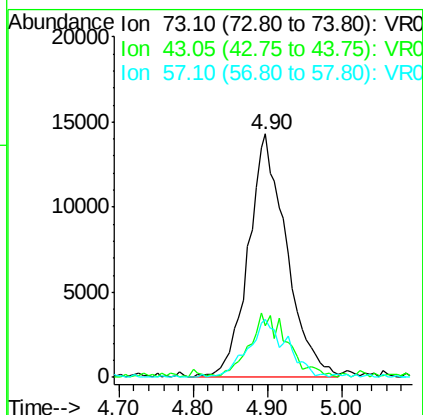
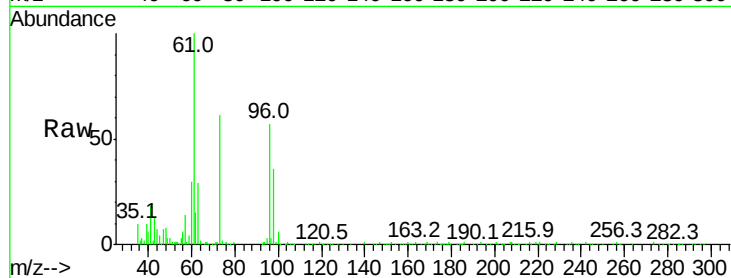
Tgt Ion: 73 Resp: 51190

Ion Ratio Lower Upper

73 100

43 26.3 19.0 28.4

57 24.2 17.9 26.9



#18

trans-1,2-Dichloroethene

Concen: 1.021 ug/L

RT: 4.89 min Scan# 527

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

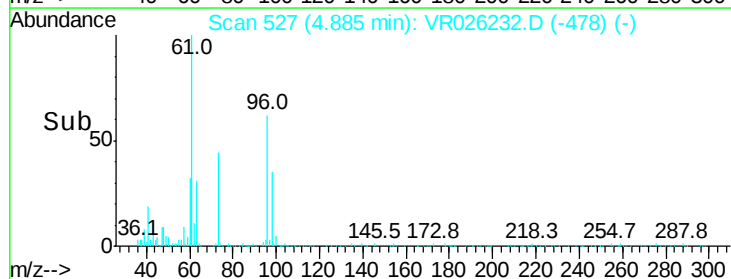
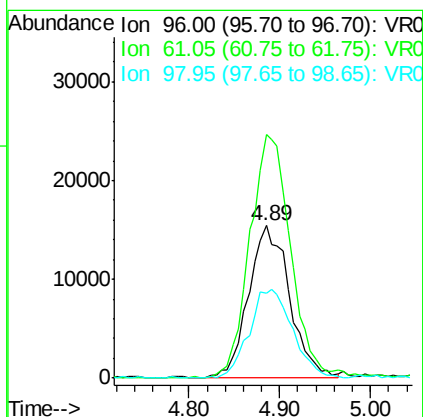
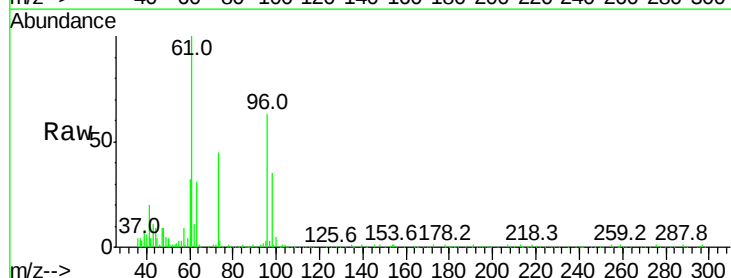
Tgt Ion: 96 Resp: 48208

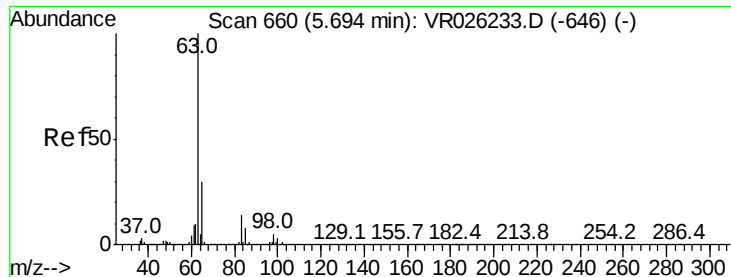
Ion Ratio Lower Upper

96 100

61 159.9 105.4 195.8

98 56.2 42.1 78.1





#19

1,1-Dichloroethane

Concen: 1.061 ug/L

RT: 5.70 min Scan# 661

Delta R.T. 0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

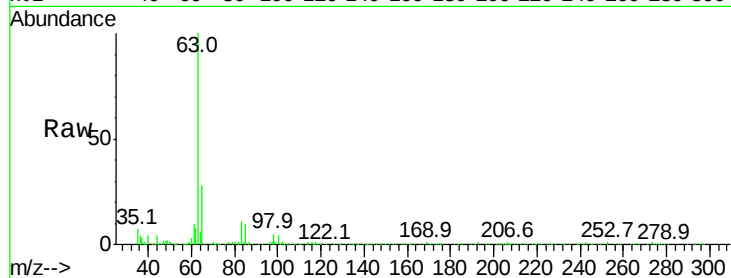
Tgt Ion: 63 Resp: 91802

Ion Ratio Lower Upper

63 100

65 28.0 21.1 39.3

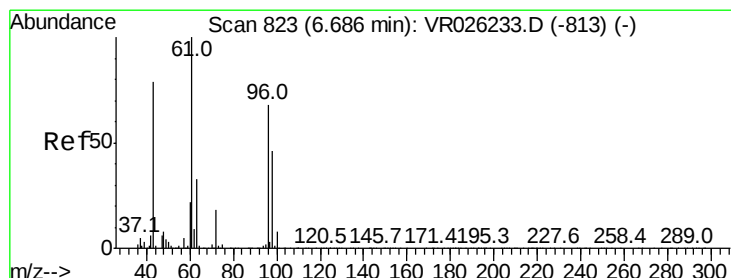
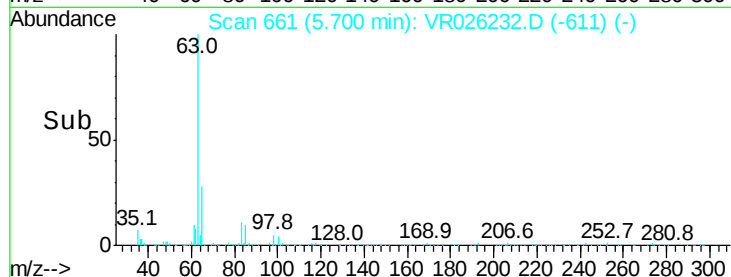
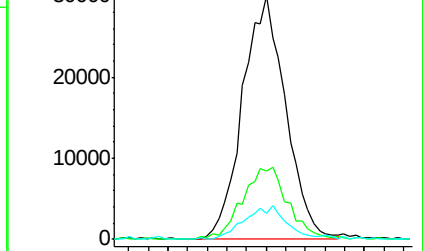
83 10.7 9.9 18.5



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



#21

2-Butanone

Concen: 9.173 ug/L

RT: 6.69 min Scan# 824

Delta R.T. 0.01 min

Lab File: VR026232.D

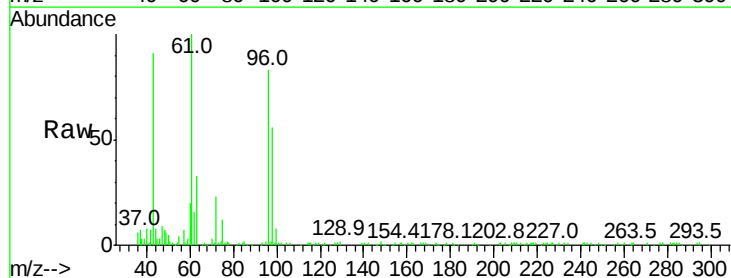
Acq: 20 Nov 2018 15:46

Tgt Ion: 43 Resp: 45013

Ion Ratio Lower Upper

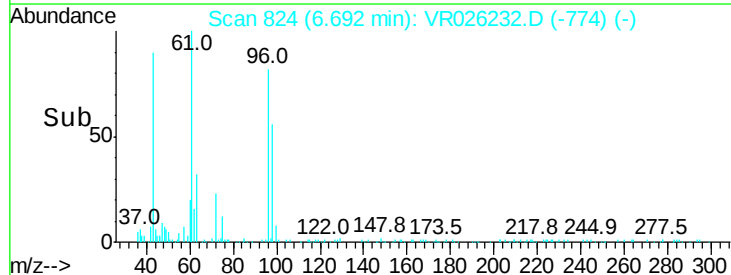
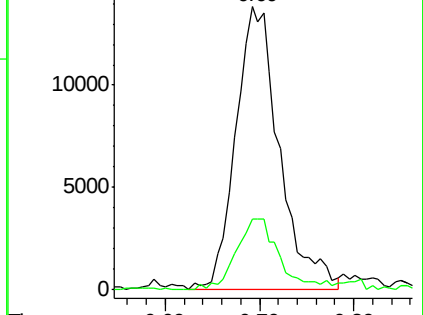
43 100

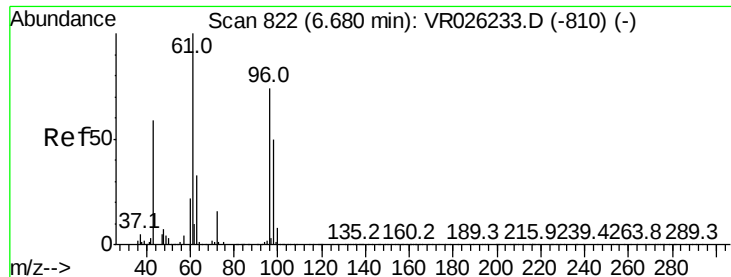
72 24.2 11.8 35.4



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 72.10 (71.80 to 72.80): VR0



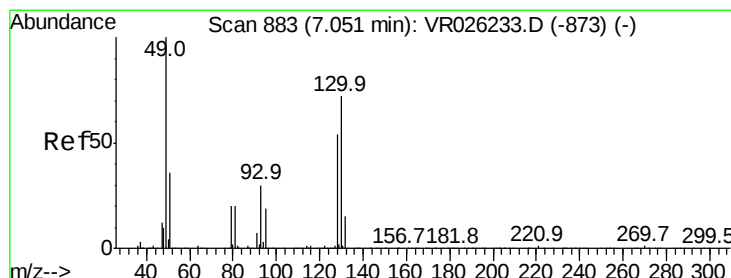
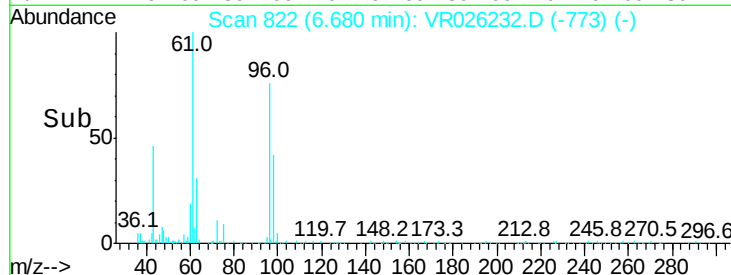
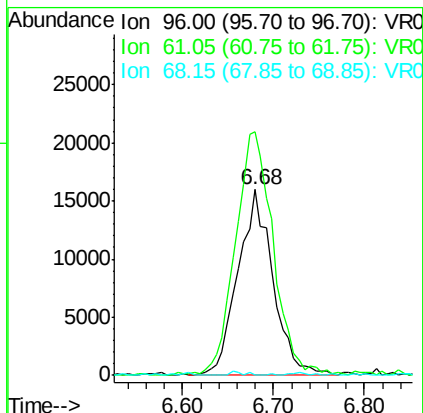
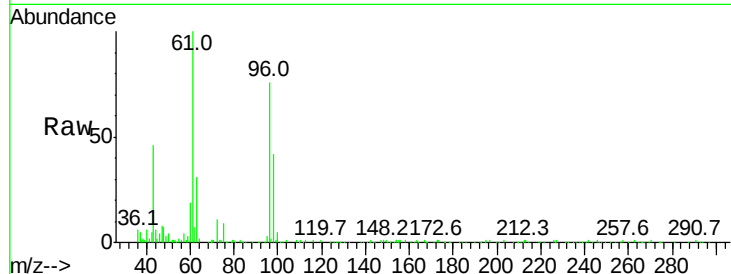


#22

cis-1,2-Dichloroethene
Concen: 1.023 ug/L
RT: 6.68 min Scan# 822
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Instrument :
MSVOA_R
ClientSampled :
VSTD00189

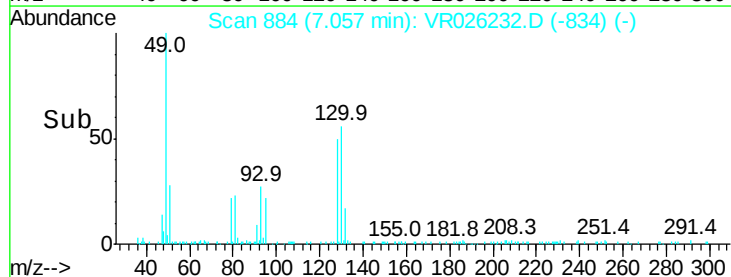
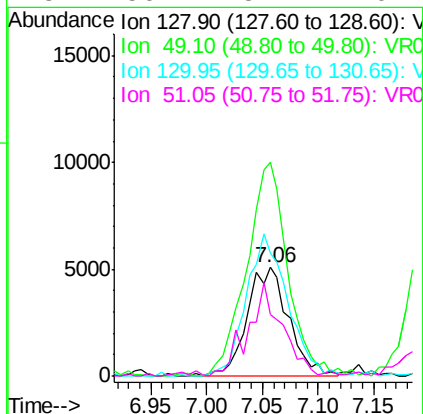
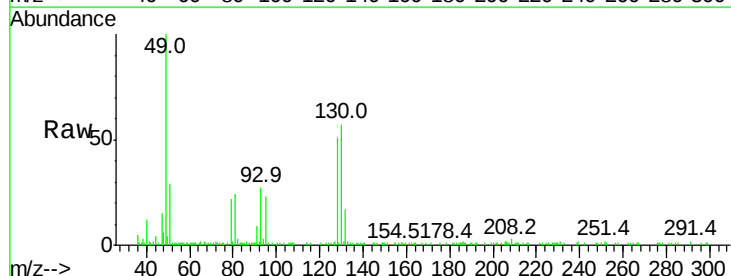
Tgt Ion: 96 Resp: 42749
Ion Ratio Lower Upper
96 100
61 131.2 94.8 176.2
68 0.4 0.0 0.0#

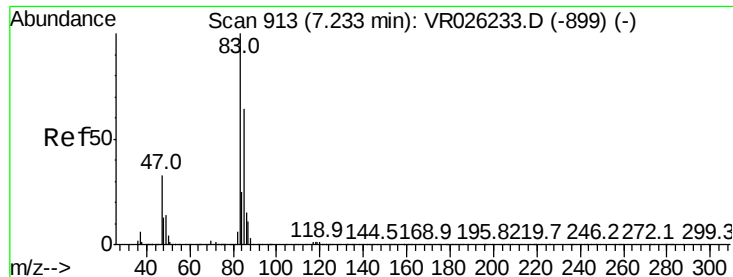


#23

Bromochloromethane
Concen: 1.036 ug/L
RT: 7.06 min Scan# 884
Delta R.T. 0.01 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion: 128 Resp: 13214
Ion Ratio Lower Upper
128 100
49 205.0 129.6 240.6
130 113.0 93.1 172.9
51 56.7 52.7 79.1





#25

Chloroform

Concen: 1.217 ug/L

RT: 7.23 min Scan# 913

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

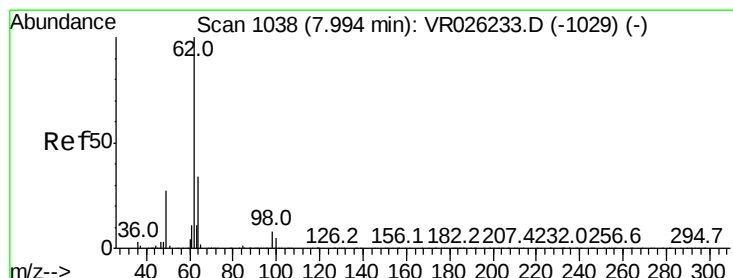
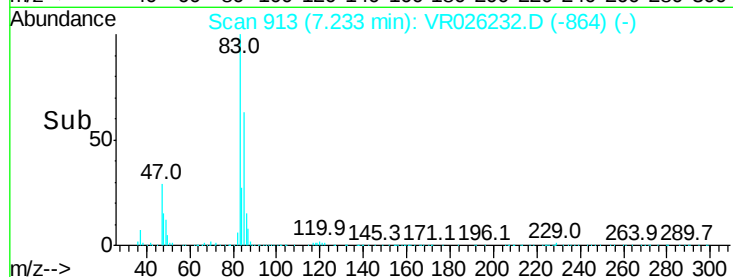
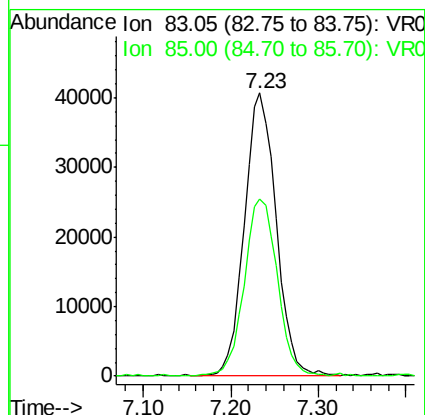
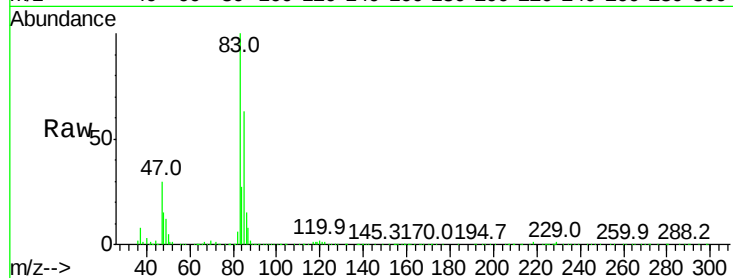
VSTD00189

Tgt Ion: 83 Resp: 102785

Ion Ratio Lower Upper

83 100

85 62.8 44.4 82.5



#27

1,2-Dichloroethane

Concen: 1.052 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VR026232.D

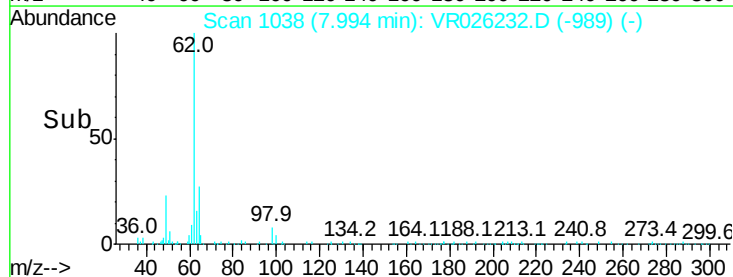
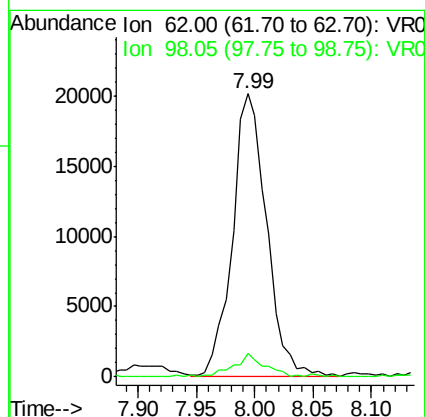
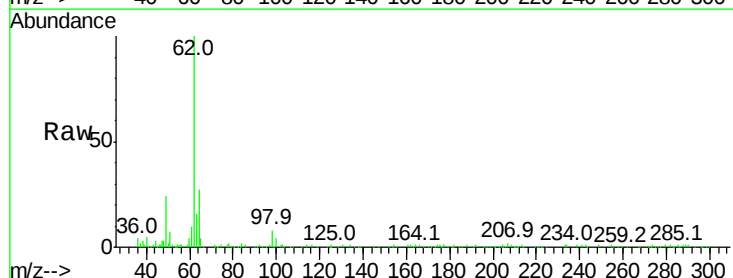
Acq: 20 Nov 2018 15:46

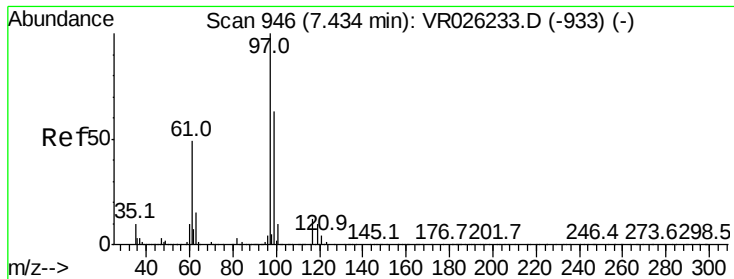
Tgt Ion: 62 Resp: 41236

Ion Ratio Lower Upper

62 100

98 8.2 6.1 9.1

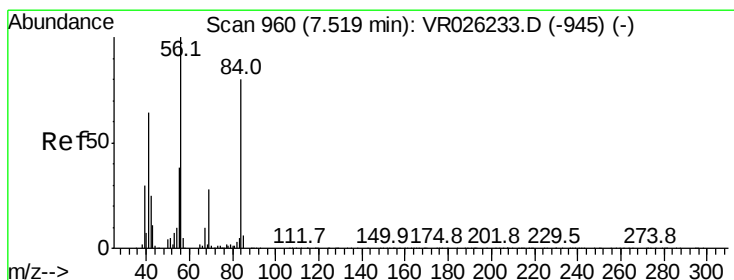
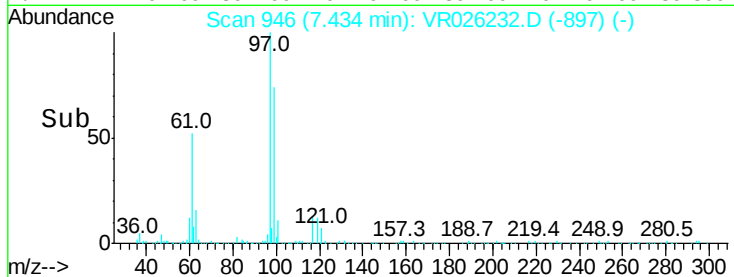
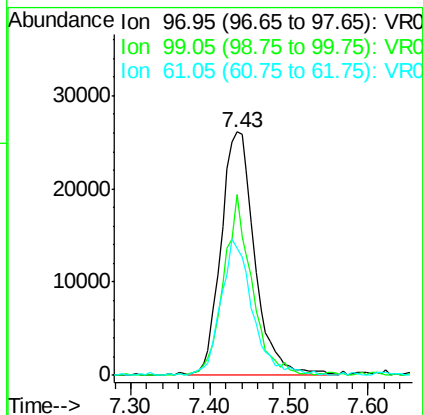
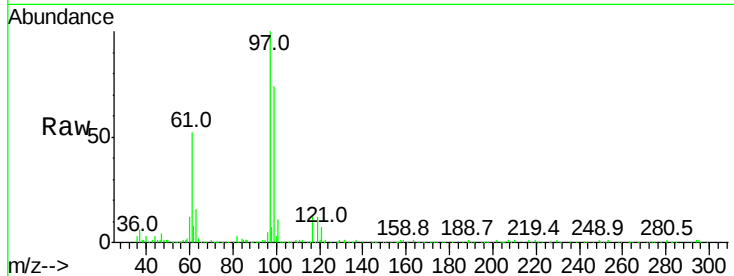




#29
 1,1,1-Trichloroethane
 Concen: 1.116 ug/L
 RT: 7.43 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

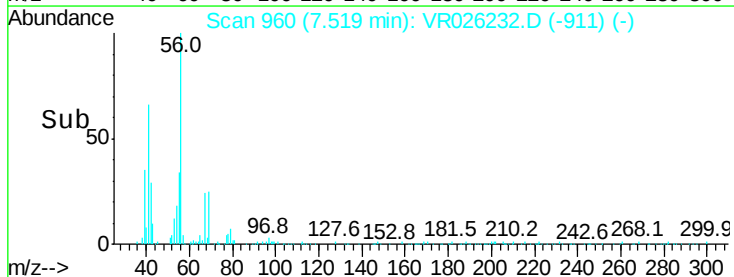
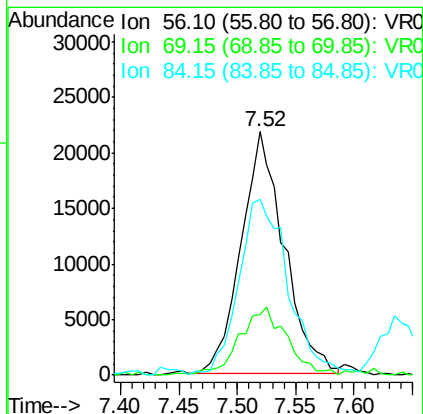
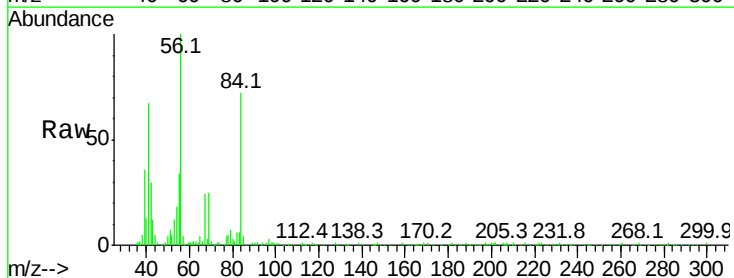
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00189

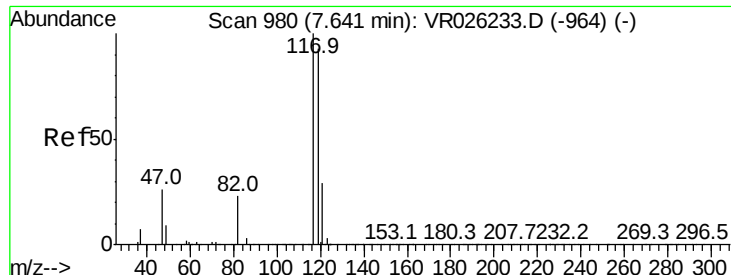
Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.9	77.9
61	53.2	39.9	59.9



#30
 Cyclohexane
 Concen: 0.932 ug/L
 RT: 7.52 min Scan# 960
 Delta R.T. -0.00 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.9	23.6	35.4
84	83.3	64.9	97.3





#31

Carbon tetrachloride

Concen: 1.120 ug/L

RT: 7.64 min Scan# 980

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

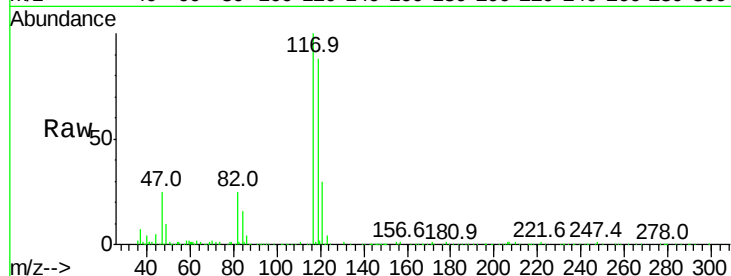
VSTD00189

Tgt Ion:117 Resp: 68400

Ion Ratio Lower Upper

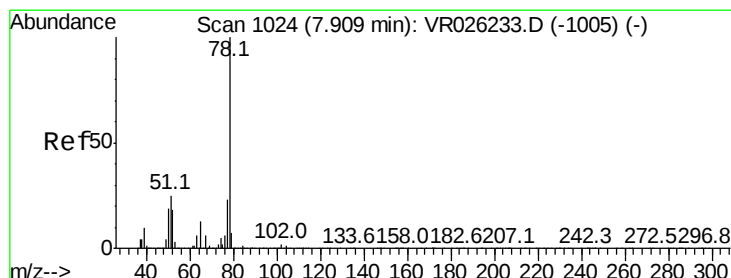
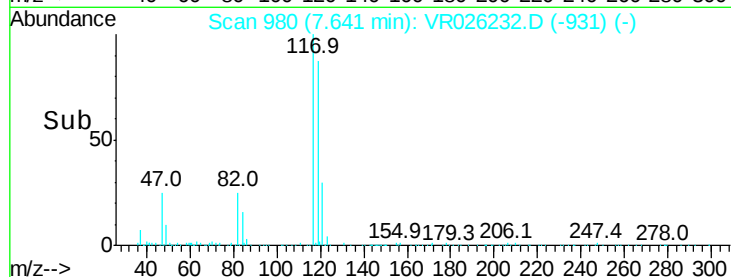
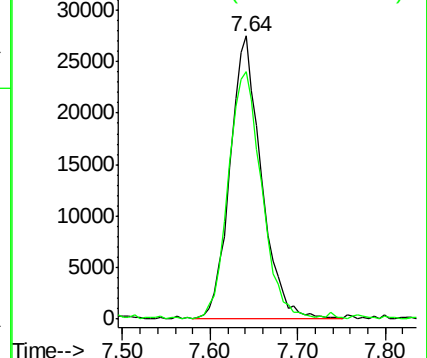
117 100

119 93.0 74.7 112.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 1.039 ug/L

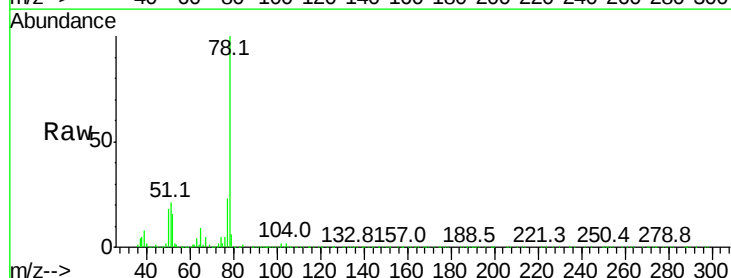
RT: 7.91 min Scan# 1025

Delta R.T. 0.01 min

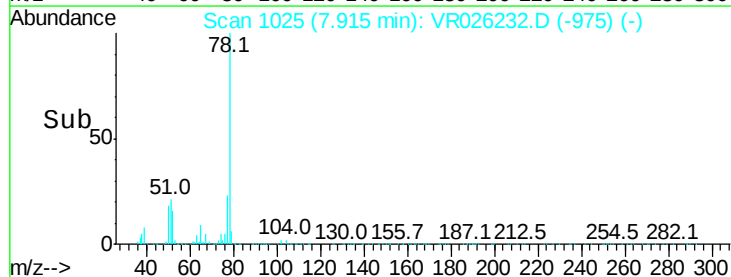
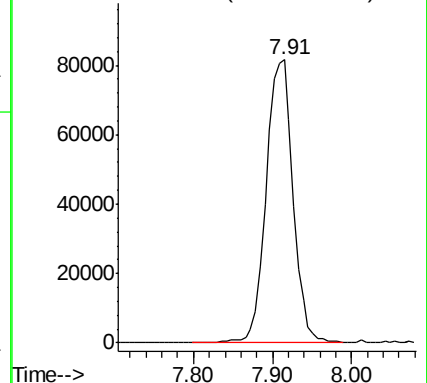
Lab File: VR026232.D

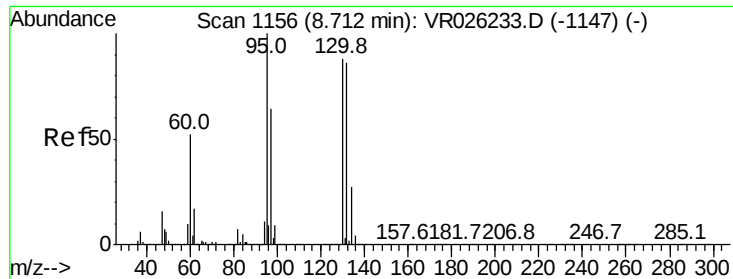
Acq: 20 Nov 2018 15:46

Tgt Ion: 78 Resp: 192826



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 1.098 ug/L

RT: 8.71 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

Tgt Ion: 95 Resp: 51895

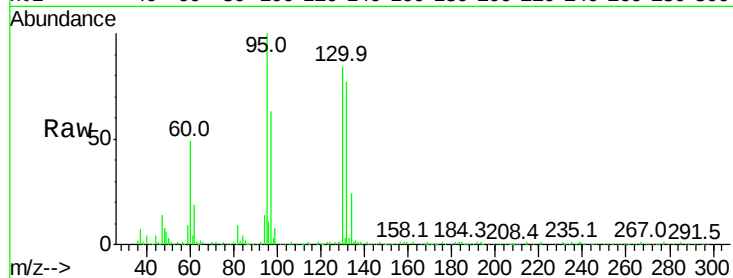
Ion Ratio Lower Upper

95 100

97 62.8 45.1 83.7

132 77.3 59.8 111.0

130 83.6 61.4 114.0

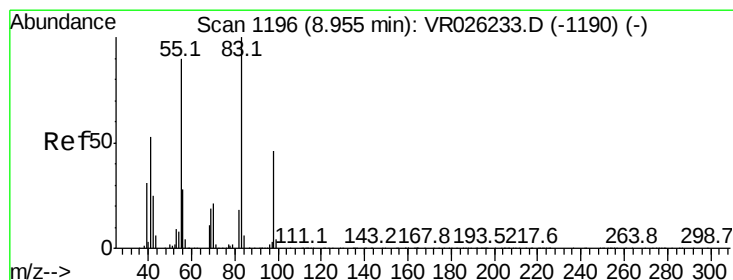
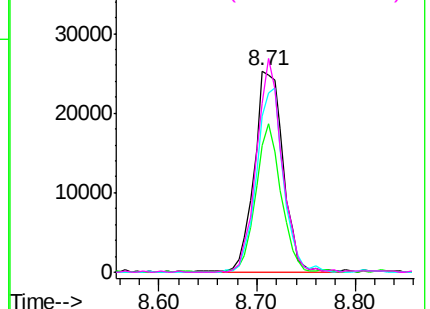
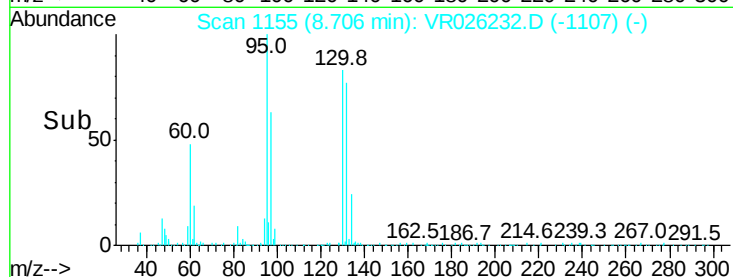


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.932 ug/L

RT: 8.96 min Scan# 1196

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

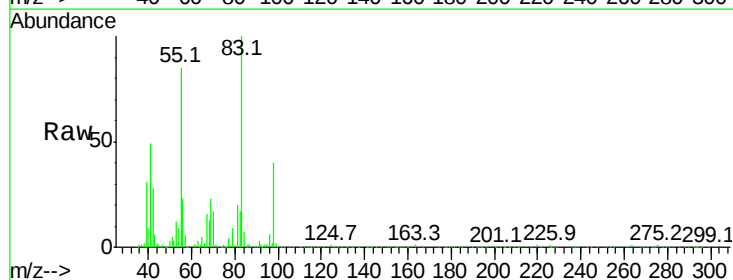
Tgt Ion: 83 Resp: 57300

Ion Ratio Lower Upper

83 100

55 95.8 66.6 100.0

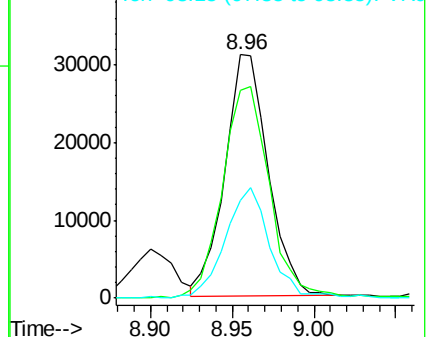
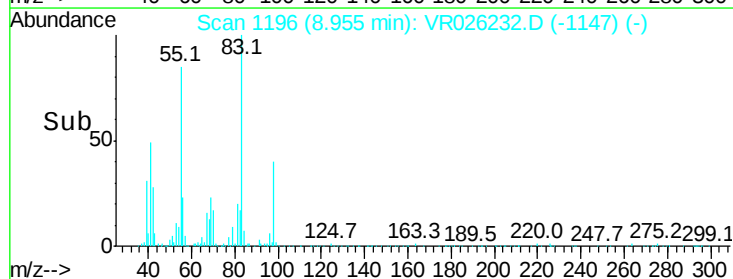
98 47.7 35.5 53.3

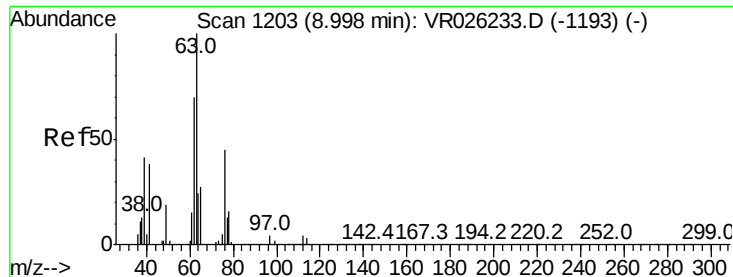


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0





#37

1,2-Dichloropropane

Concen: 1.027 ug/L

RT: 8.99 min Scan# 1202

Delta R.T. -0.01 min

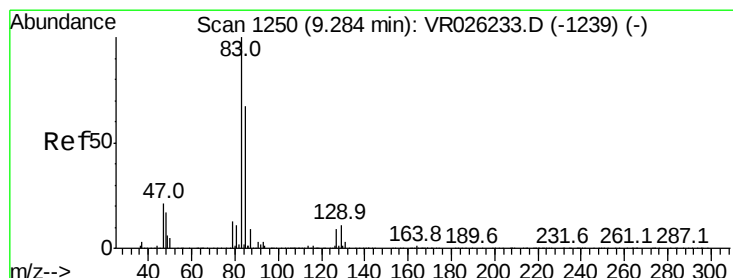
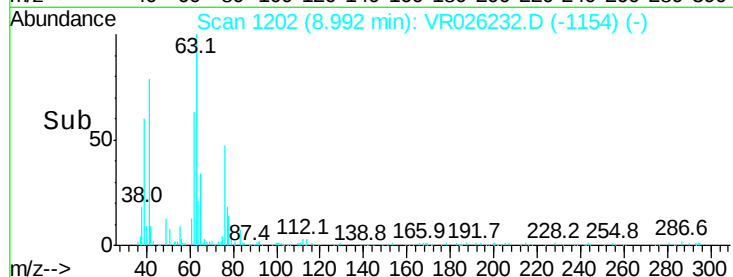
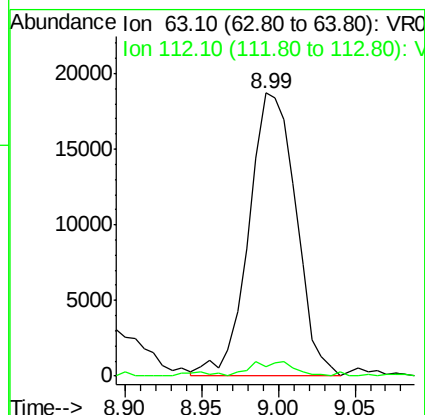
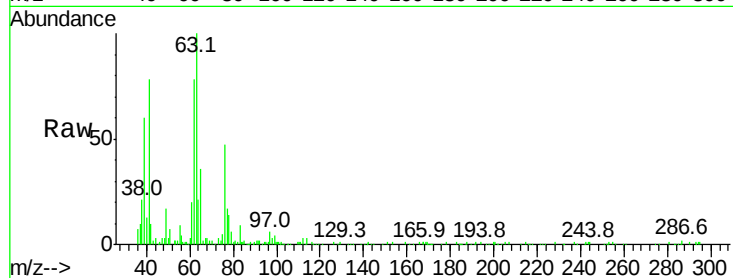
Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

Tgt Ion: 63 Resp: 39980

Ion	Ratio	Lower	Upper
63	100		
112	4.8	3.4	5.0



#38

Bromodichloromethane

Concen: 1.115 ug/L

RT: 9.28 min Scan# 1250

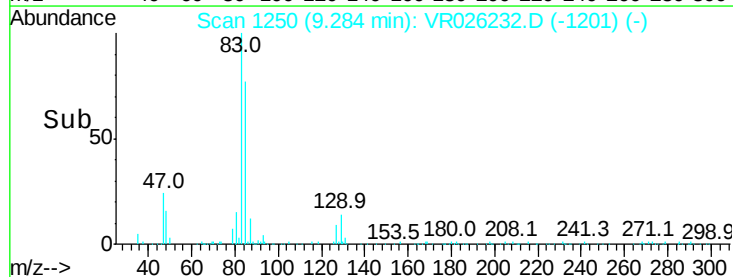
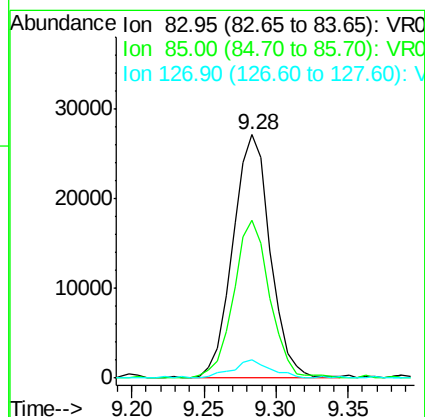
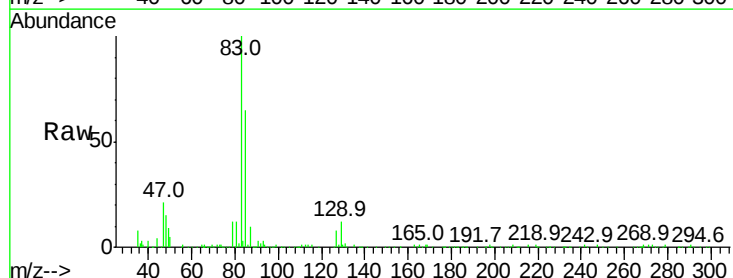
Delta R.T. 0.00 min

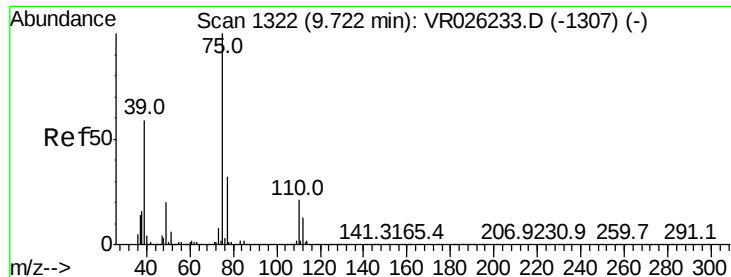
Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Tgt Ion: 83 Resp: 48439

Ion	Ratio	Lower	Upper
83	100		
85	64.7	46.8	86.8
127	7.7	7.0	10.6

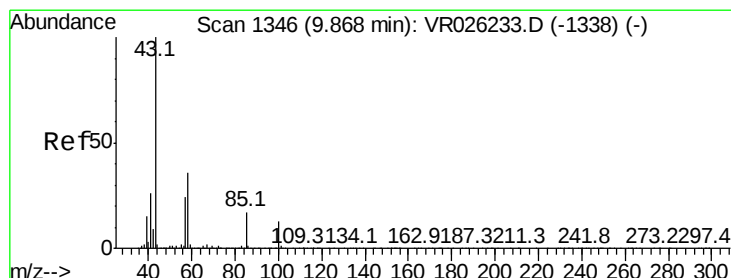
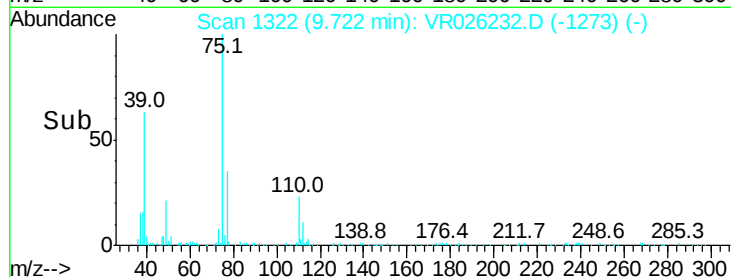
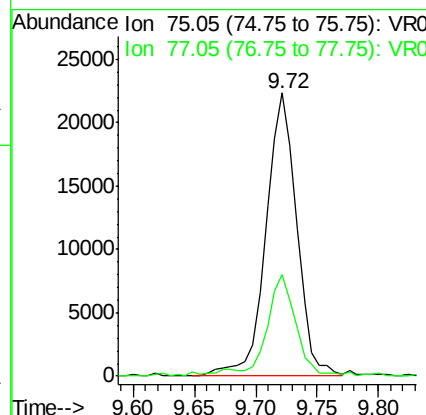
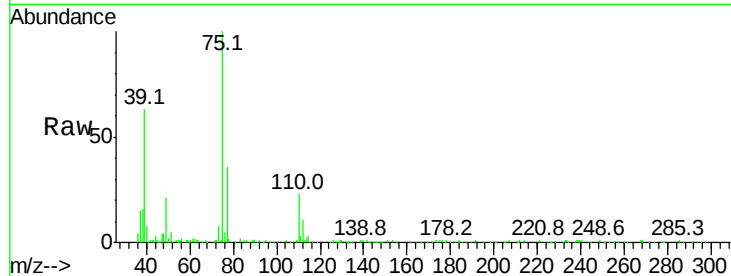




#39
 cis-1,3-Dichloropropene
 Concen: 0.892 ug/L
 RT: 9.72 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

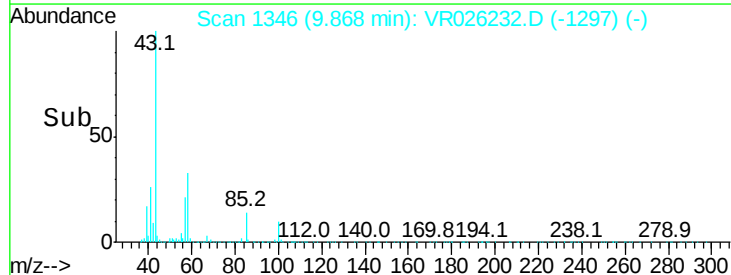
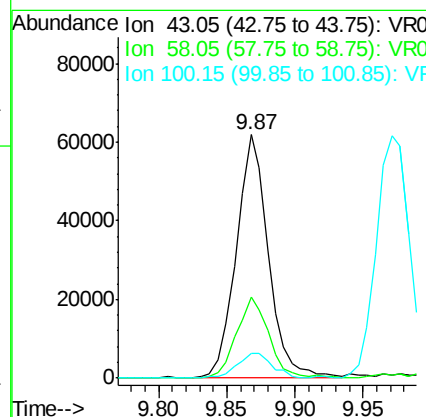
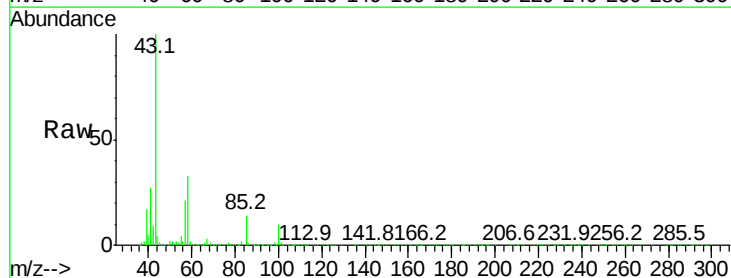
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00189

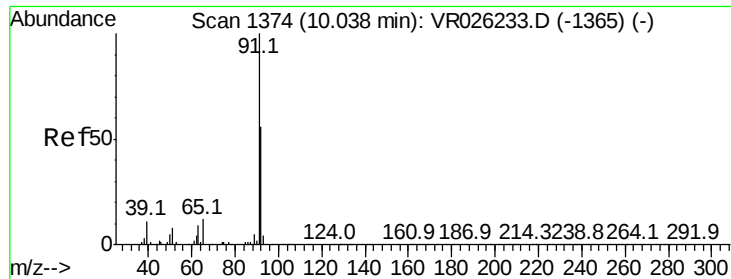
Tgt Ion: 75 Resp: 39242
 Ion Ratio Lower Upper
 75 100
 77 35.7 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 9.113 ug/L
 RT: 9.87 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

Tgt Ion: 43 Resp: 100217
 Ion Ratio Lower Upper
 43 100
 58 33.6 28.0 42.0
 100 11.0 10.0 15.0





#42

Toluene

Concen: 1.170 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

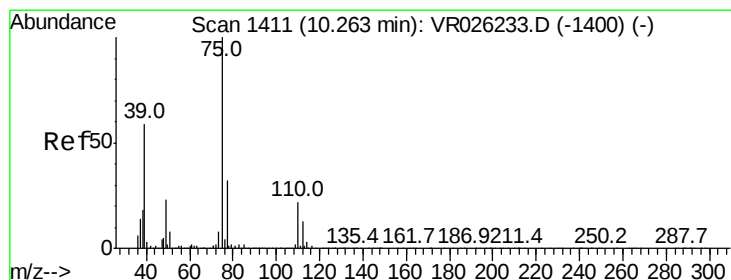
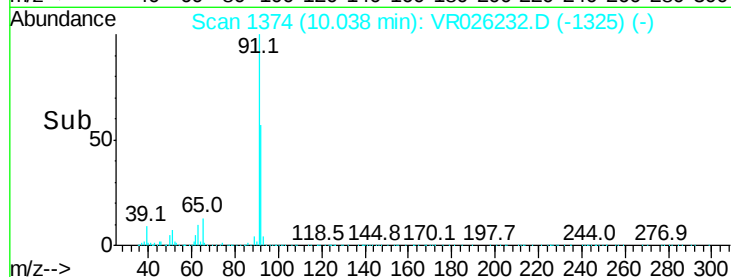
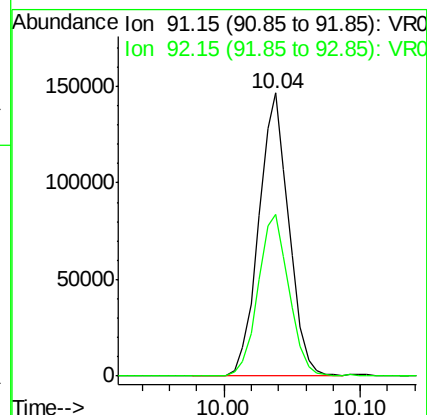
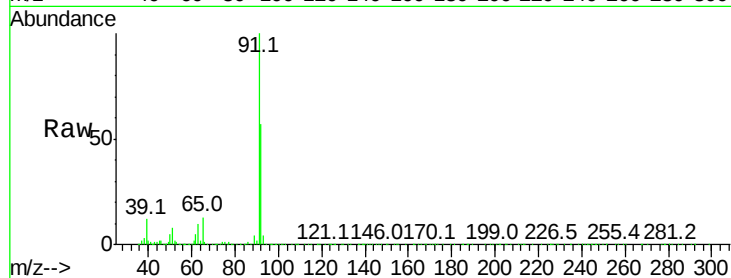
VSTD00189

Tgt Ion: 91 Resp: 226190

Ion Ratio Lower Upper

91 100

92 57.0 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 0.920 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026232.D

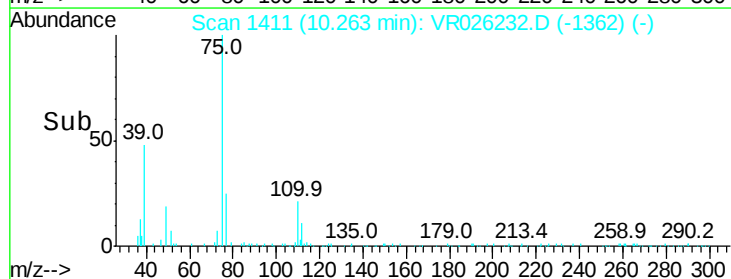
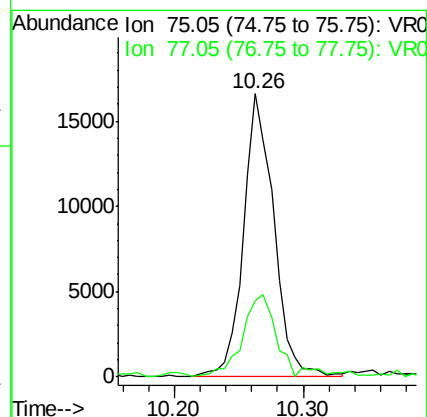
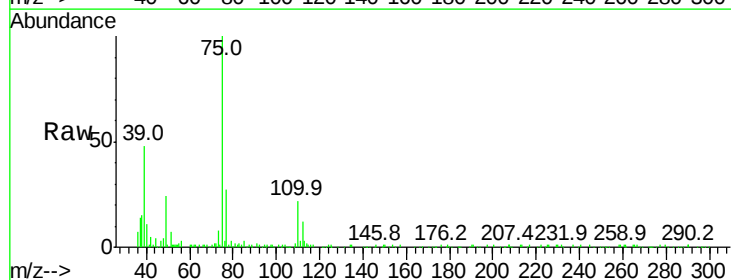
Acq: 20 Nov 2018 15:46

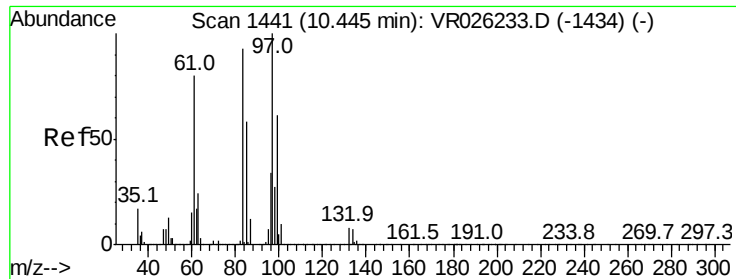
Tgt Ion: 75 Resp: 26999

Ion Ratio Lower Upper

75 100

77 26.7 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 1.039 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

Tgt Ion: 97 Resp: 17455

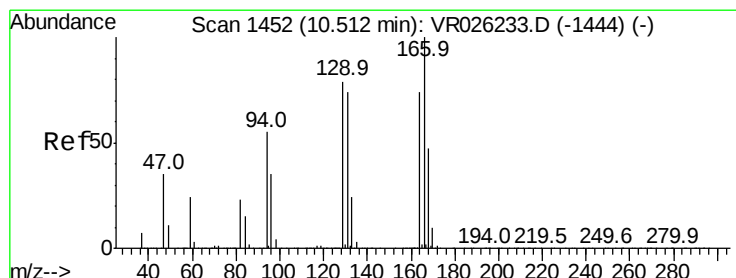
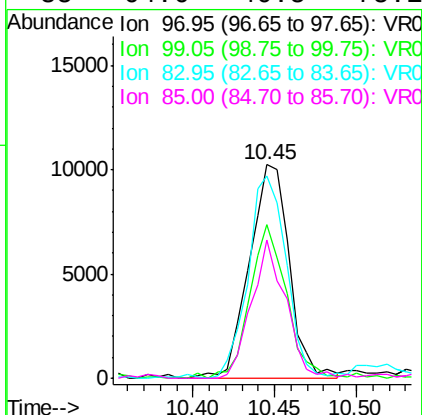
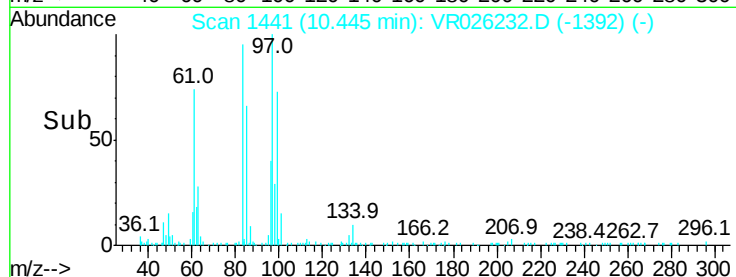
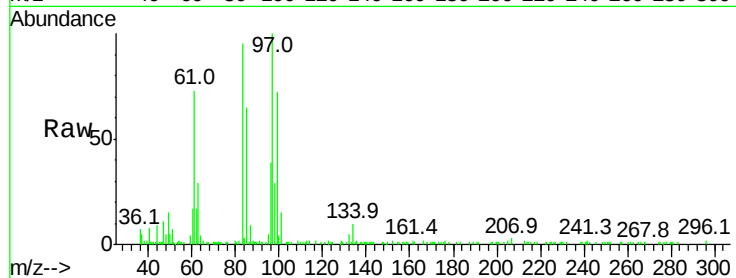
Ion Ratio Lower Upper

97 100

99 72.2 43.0 80.0

83 94.6 65.0 120.8

85 64.6 40.5 75.1



#47

Tetrachloroethene

Concen: 1.147 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Tgt Ion: 164 Resp: 37034

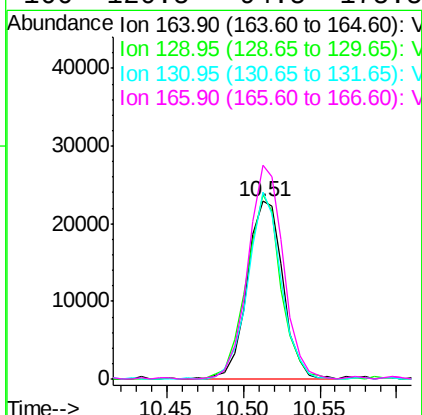
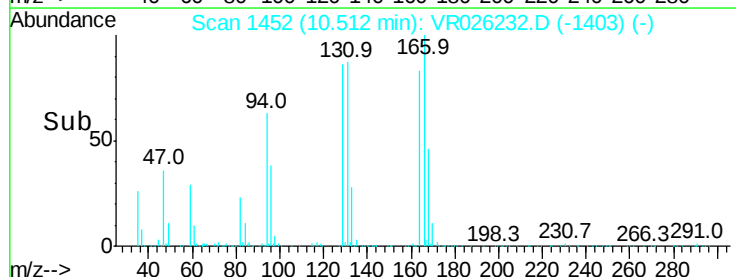
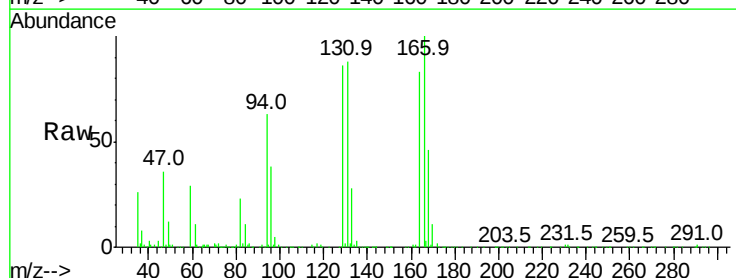
Ion Ratio Lower Upper

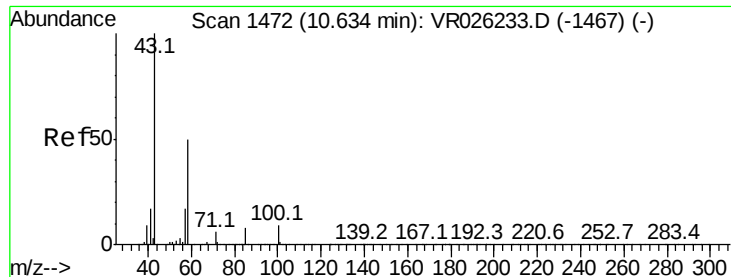
164 100

129 103.8 74.6 138.6

131 105.6 69.8 129.6

166 120.5 94.5 175.5

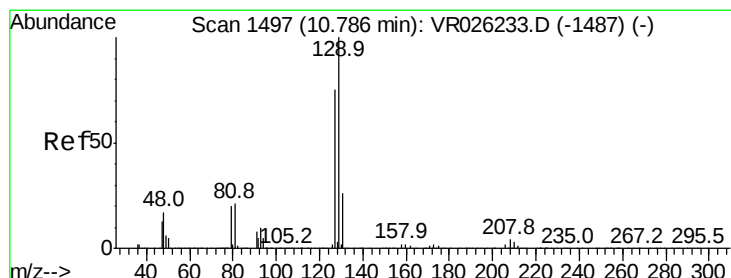
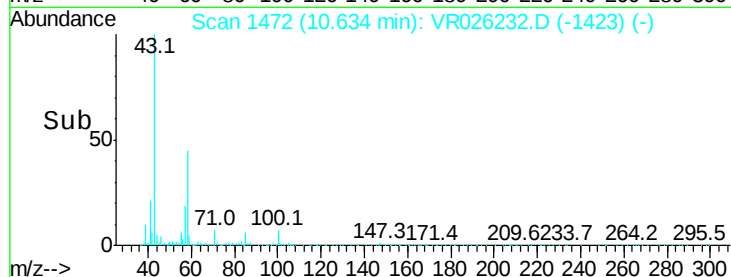
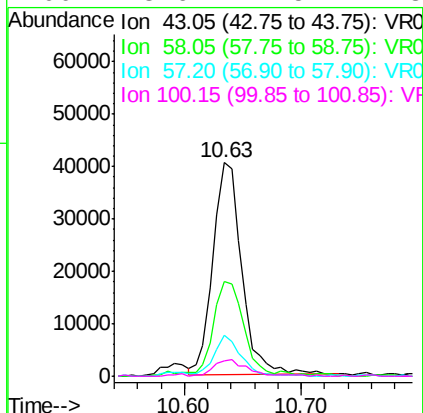
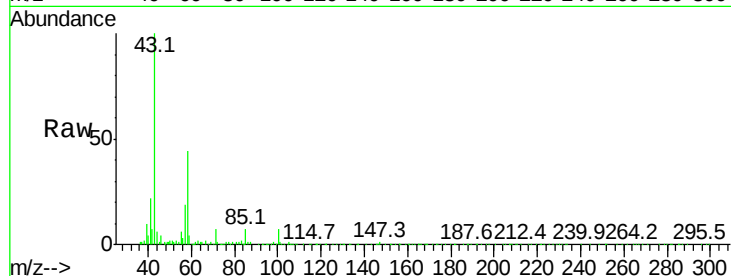




#48
2-Hexanone
Concen: 9.325 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

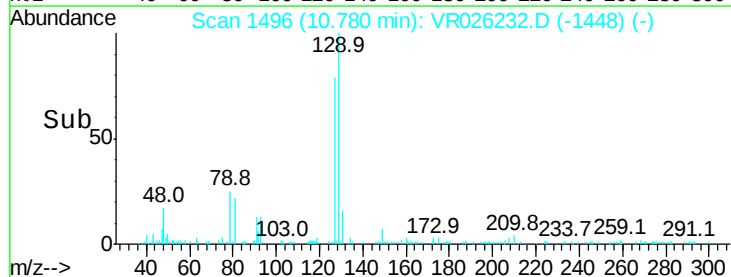
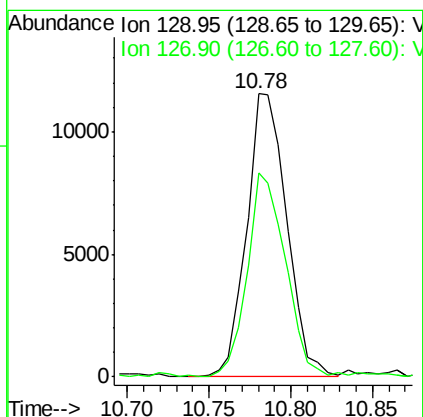
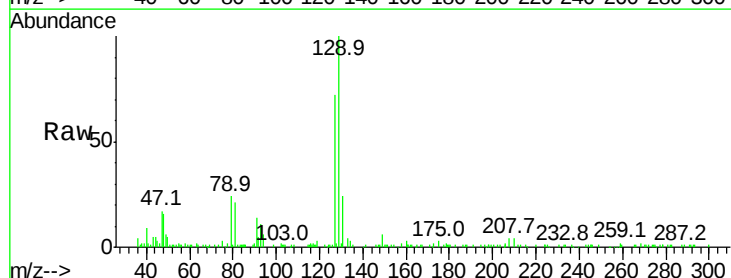
Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

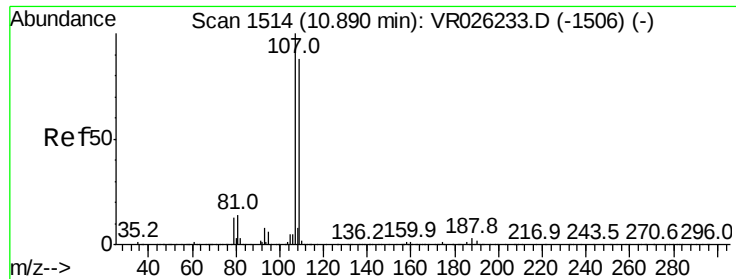
Tgt Ion:	43	Resp:	69155
Ion	Ratio	Lower	Upper
43	100		
58	49.2	41.3	61.9
57	17.0	14.5	21.7
100	8.6	7.5	11.3



#49
Dibromochloromethane
Concen: 0.992 ug/L
RT: 10.78 min Scan# 1496
Delta R.T. -0.01 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion:	129	Resp:	19741
Ion	Ratio	Lower	Upper
129	100		
127	72.2	52.8	98.0

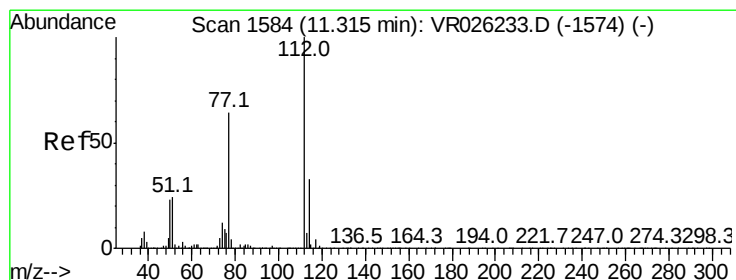
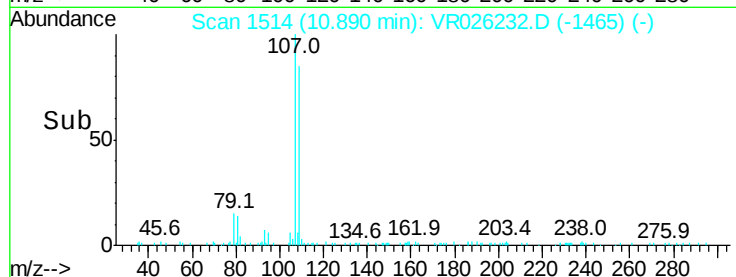
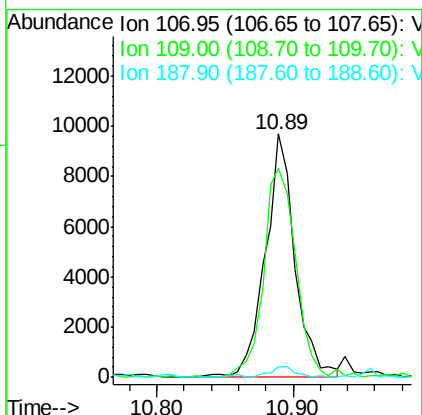
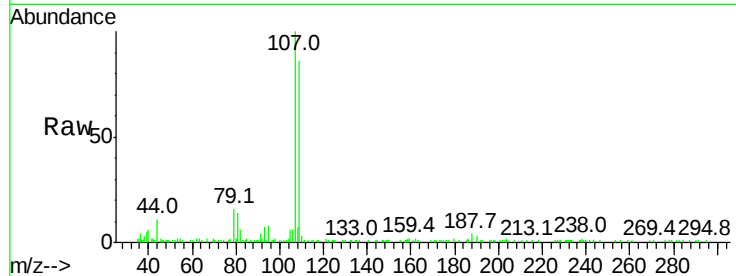




#50
1,2-Dibromoethane
Concen: 1.037 ug/L
RT: 10.89 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

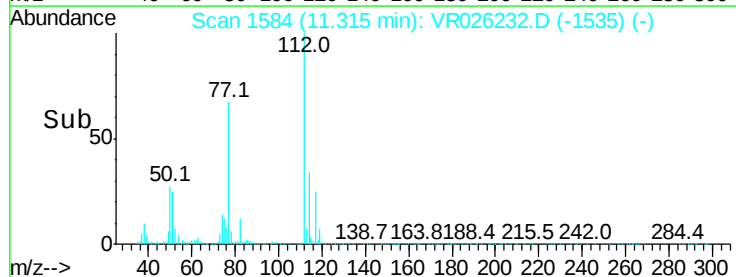
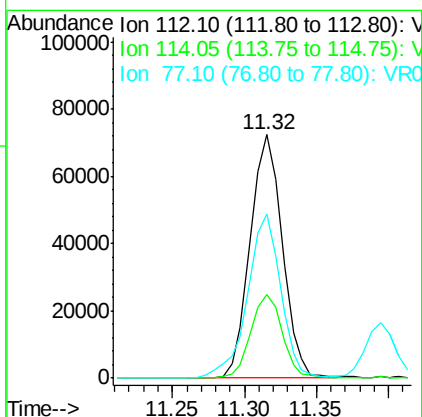
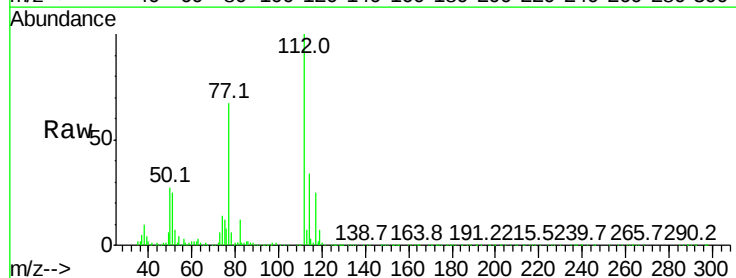
Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

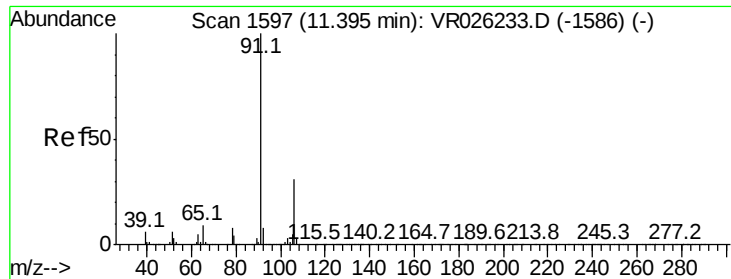
Tgt Ion:107 Resp: 14776
Ion Ratio Lower Upper
107 100
109 85.8 62.1 115.3
188 4.1 2.2 3.2#



#51
Chlorobenzene
Concen: 1.042 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion:112 Resp: 111932
Ion Ratio Lower Upper
112 100
114 34.2 23.0 42.6
77 67.4 51.5 77.3





#52

Ethylbenzene

Concen: 1.017 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

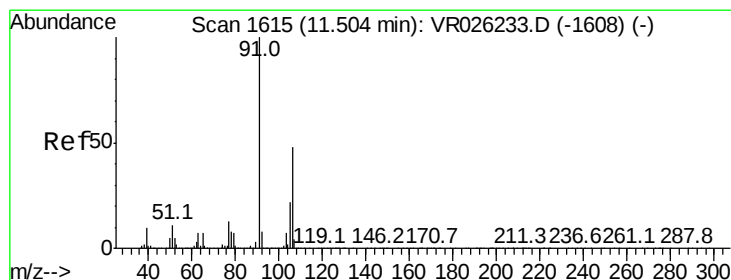
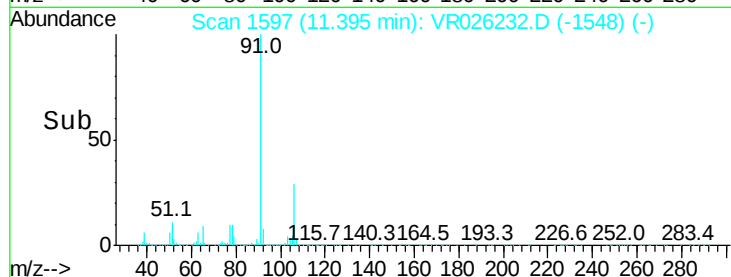
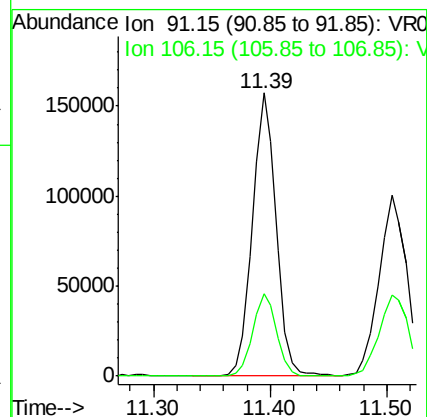
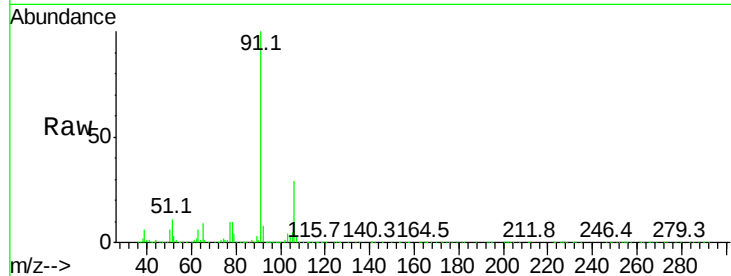
VSTD00189

Tgt Ion: 91 Resp: 222992

Ion Ratio Lower Upper

91 100

106 29.1 21.3 39.6



#53

m,p-Xylene

Concen: 0.993 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026232.D

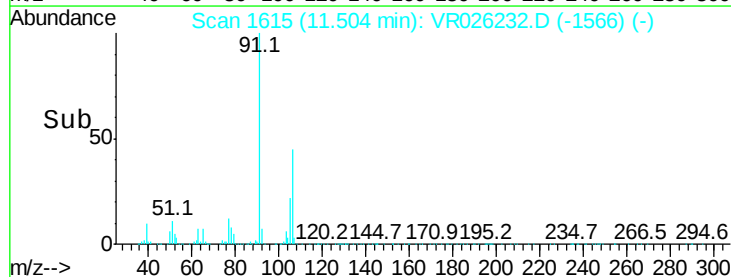
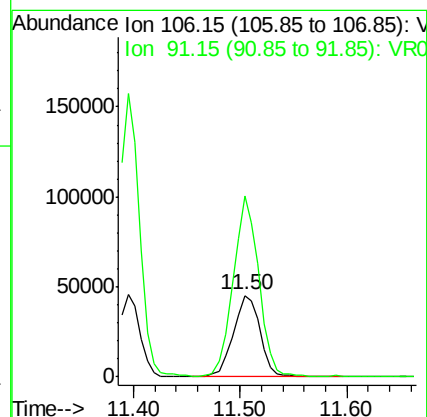
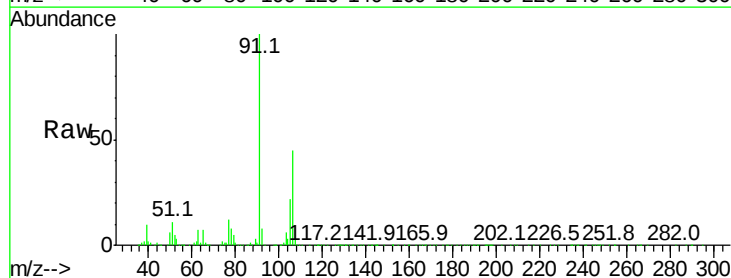
Acq: 20 Nov 2018 15:46

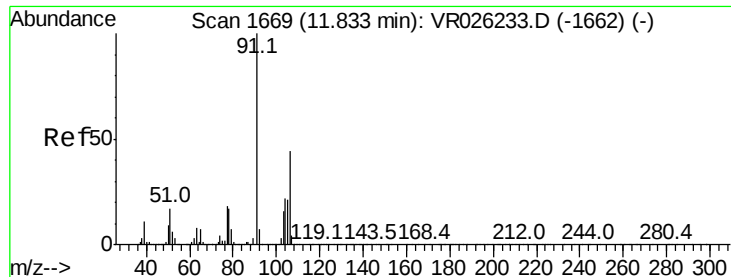
Tgt Ion: 106 Resp: 79028

Ion Ratio Lower Upper

106 100

91 222.3 147.2 273.4





#54

o-Xylene

Concen: 0.916 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. 0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

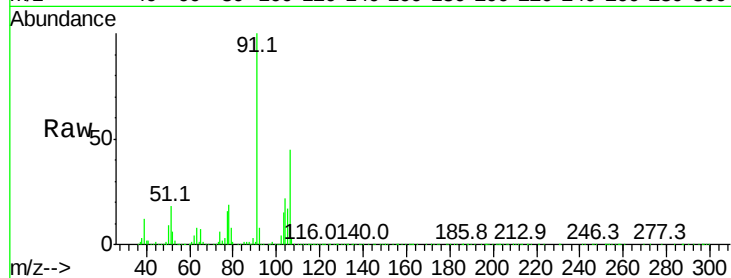
VSTD00189

Tgt Ion:106 Resp: 66563

Ion Ratio Lower Upper

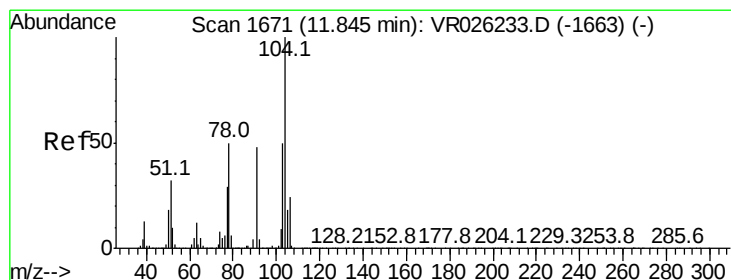
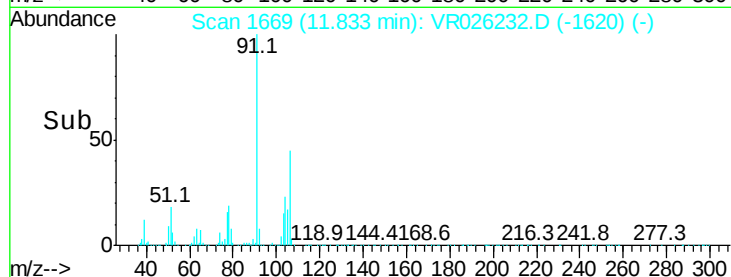
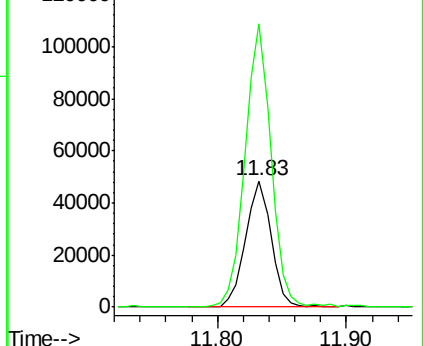
106 100

91 224.2 159.0 295.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#55

Styrene

Concen: 0.963 ug/L

RT: 11.84 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VR026232.D

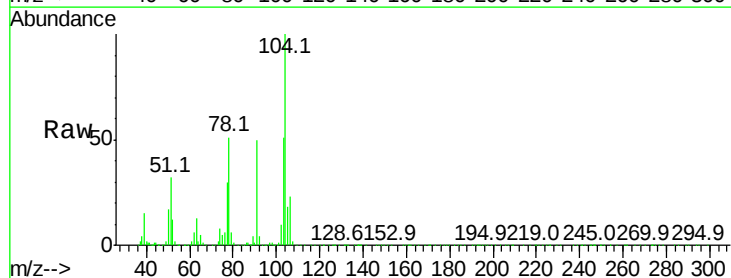
Acq: 20 Nov 2018 15:46

Tgt Ion:104 Resp: 108666

Ion Ratio Lower Upper

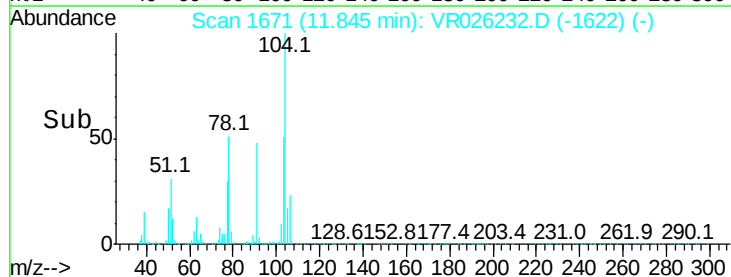
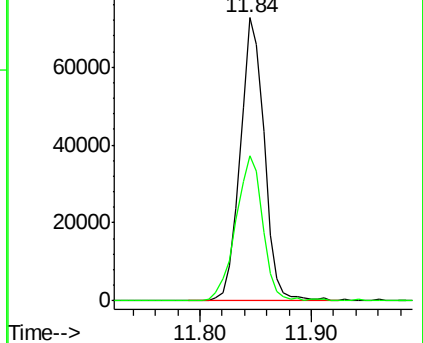
104 100

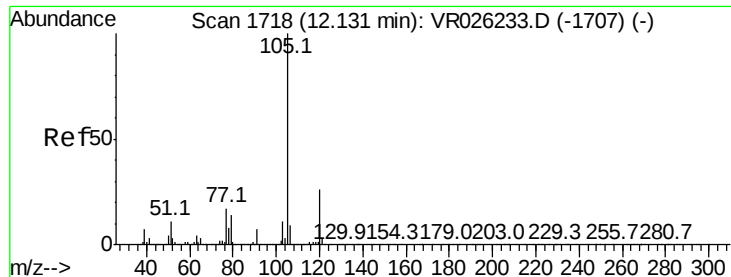
78 51.4 35.4 65.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0





#56

Isopropylbenzene

Concen: 0.994 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

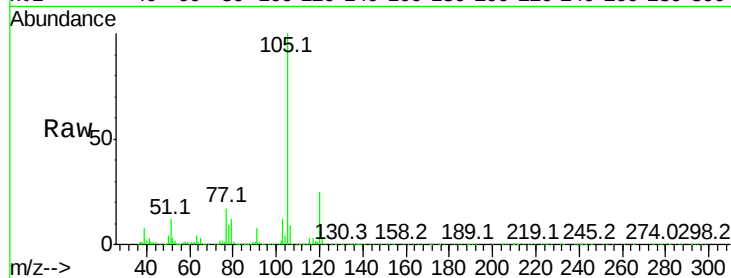
Tgt Ion: 105 Resp: 195031

Ion Ratio Lower Upper

105 100

120 25.8 20.9 31.3

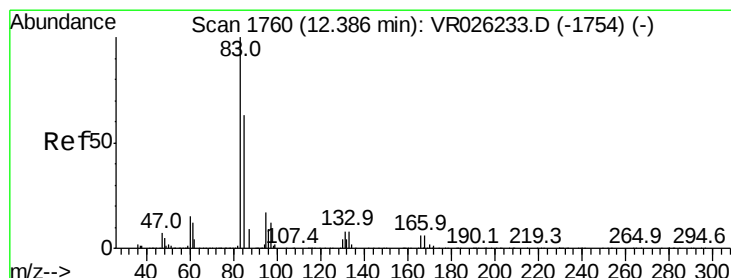
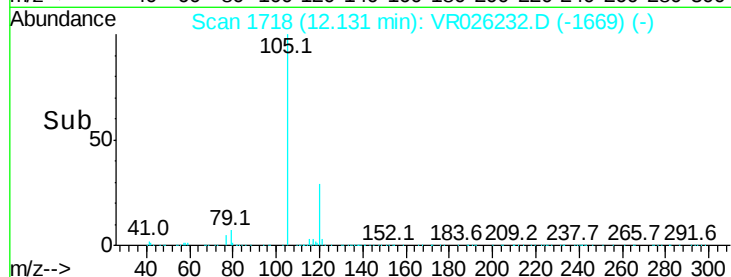
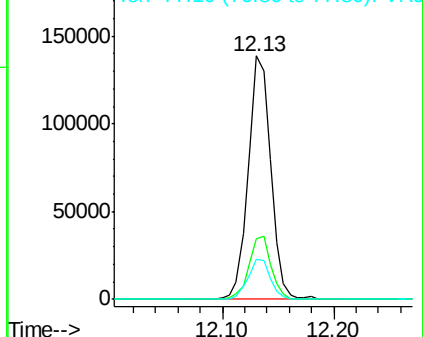
77 16.7 13.8 20.6



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



#58

1,1,2,2-Tetrachloroethane

Concen: 1.051 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

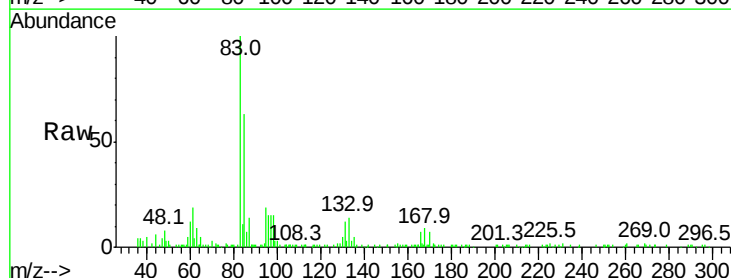
Tgt Ion: 83 Resp: 17060

Ion Ratio Lower Upper

83 100

85 63.4 44.5 82.7

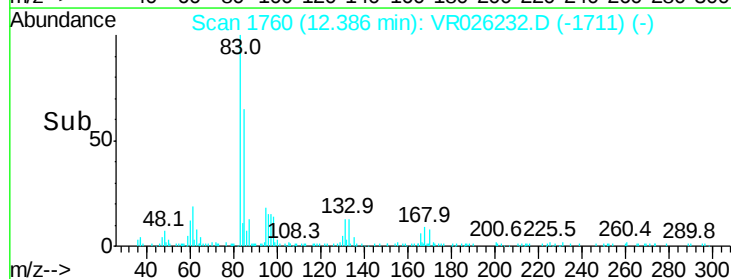
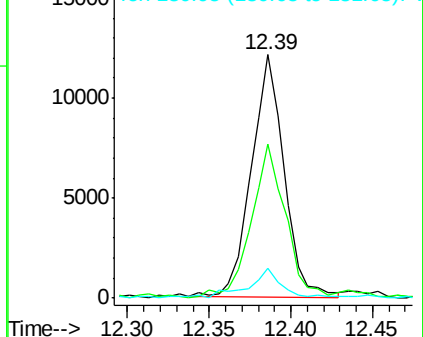
131 12.4 7.1 10.7#

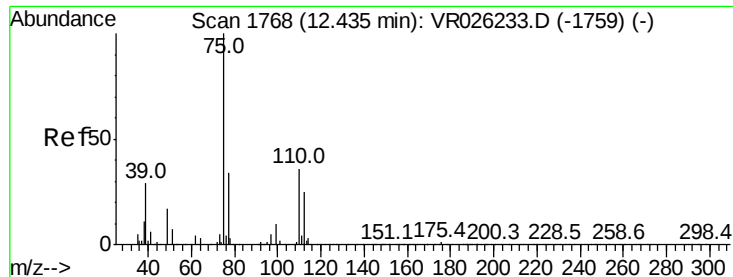


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 1.086 ug/L

RT: 12.43 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

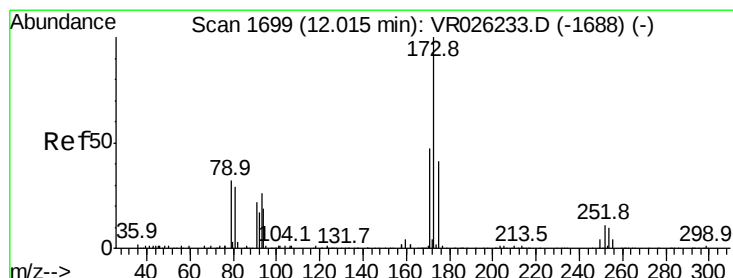
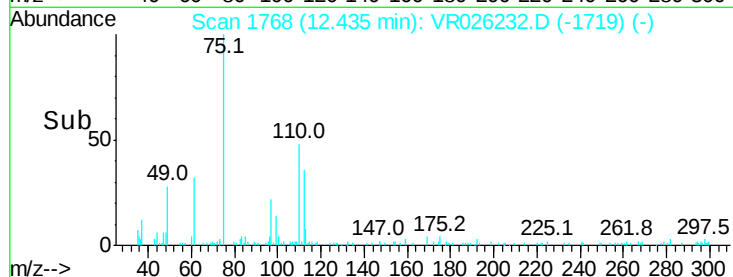
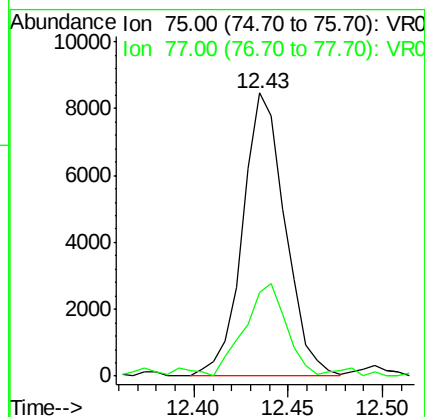
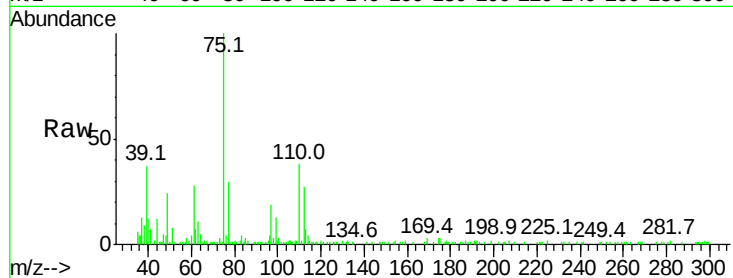
VSTD00189

Tgt Ion: 75 Resp: 13267

Ion Ratio Lower Upper

75 100

77 32.4 26.1 39.1



#61

Bromoform

Concen: 0.999 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.01 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

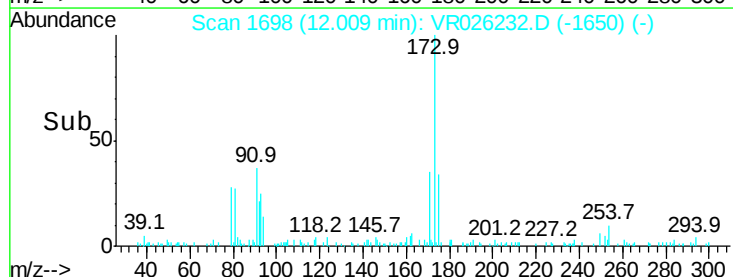
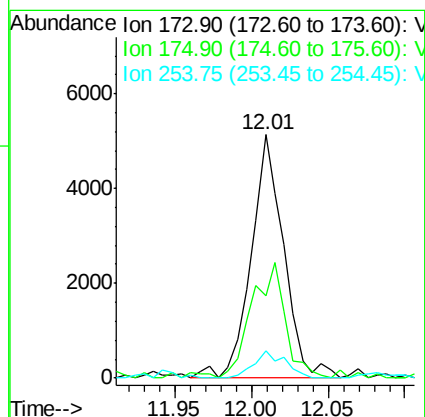
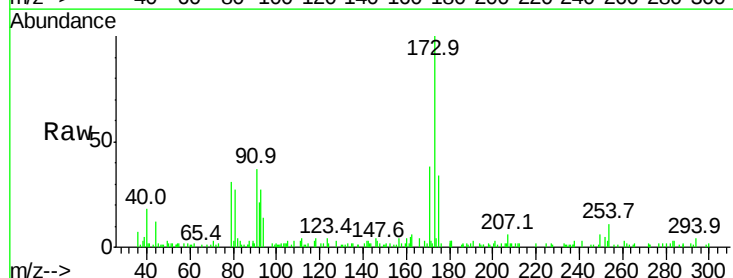
Tgt Ion: 173 Resp: 7594

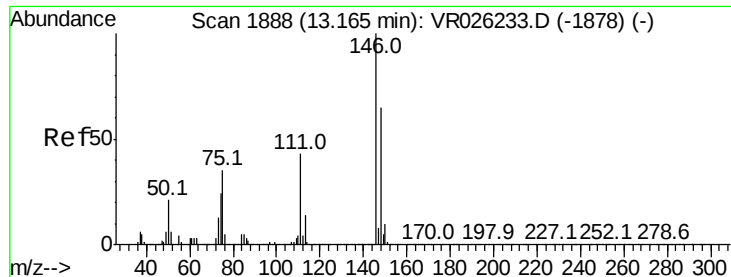
Ion Ratio Lower Upper

173 100

175 49.1 37.8 56.8

254 10.8 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 1.073 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

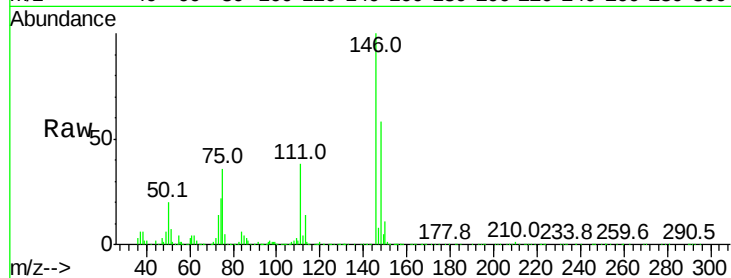
Tgt Ion:146 Resp: 62442

Ion Ratio Lower Upper

146 100

111 38.2 29.9 55.5

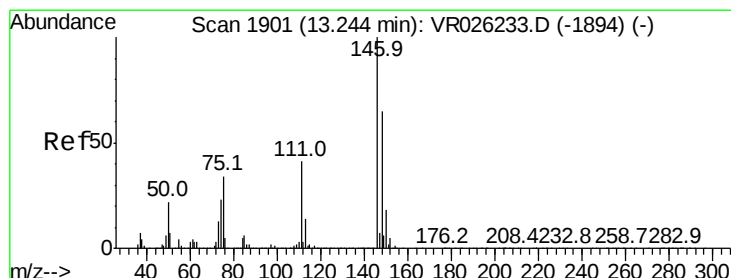
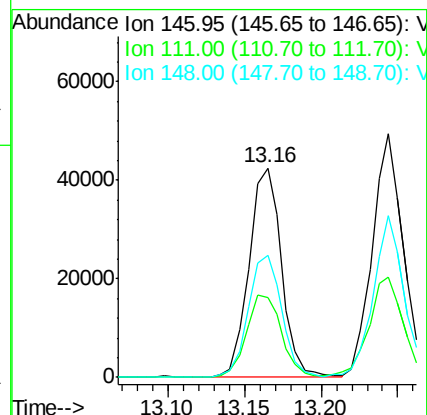
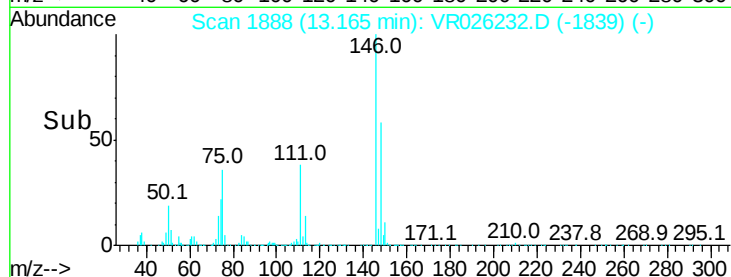
148 58.1 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 1.094 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

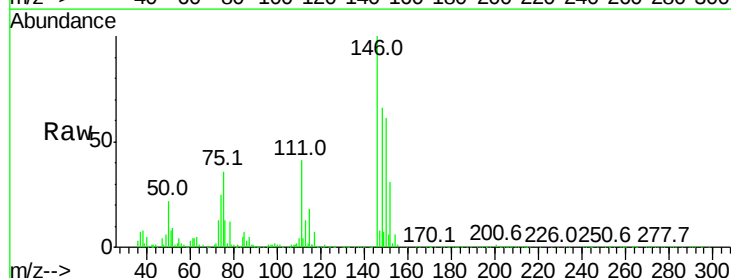
Tgt Ion:146 Resp: 70009

Ion Ratio Lower Upper

146 100

111 41.1 29.0 53.9

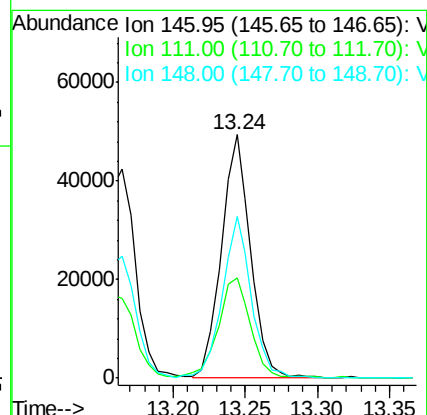
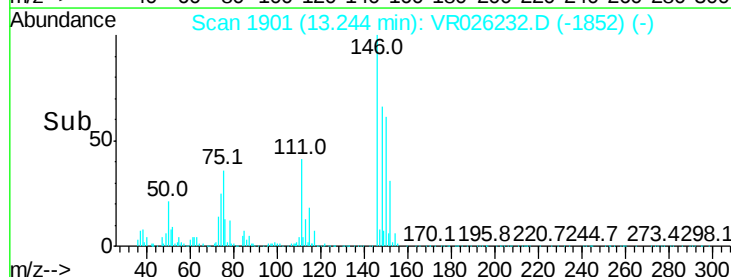
148 66.4 45.6 84.8

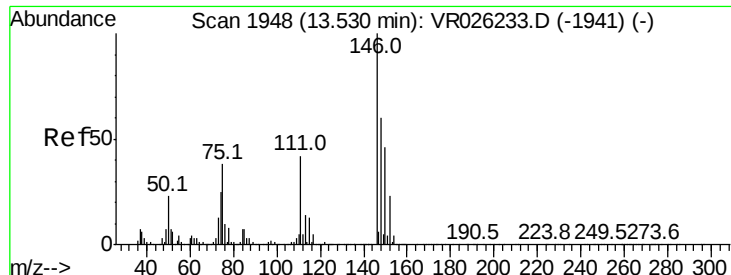


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

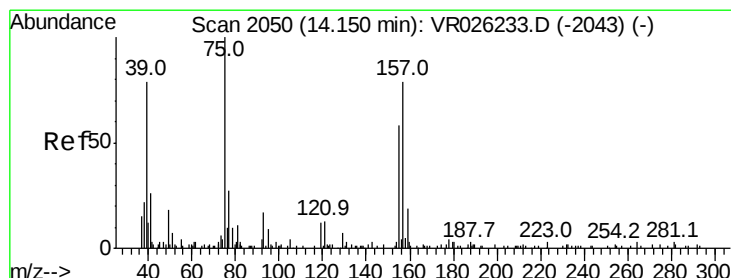
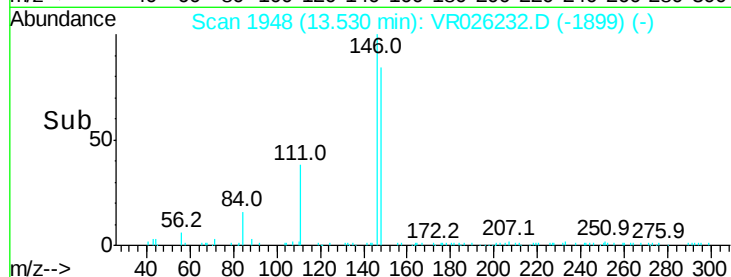
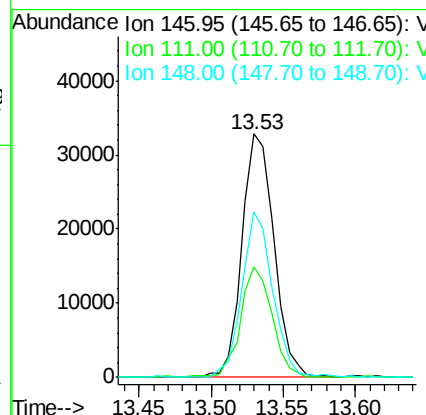
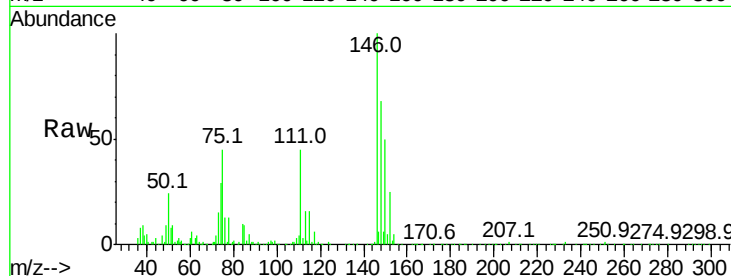




#65
1,2-Dichlorobenzene
Concen: 1.037 ug/L
RT: 13.53 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

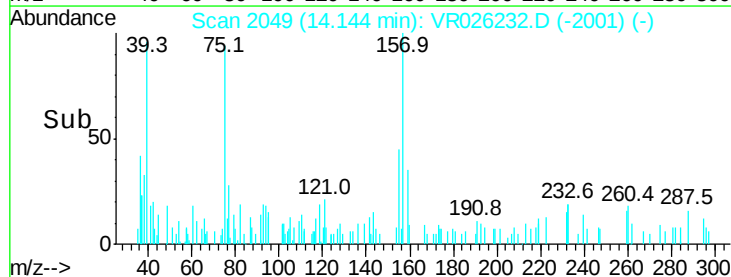
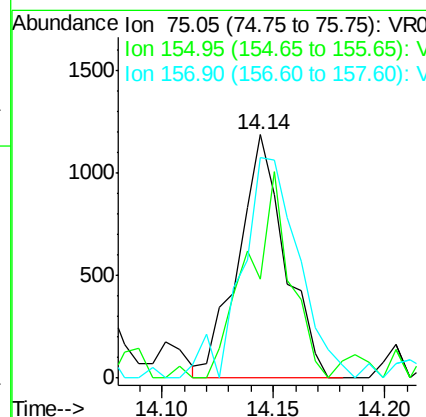
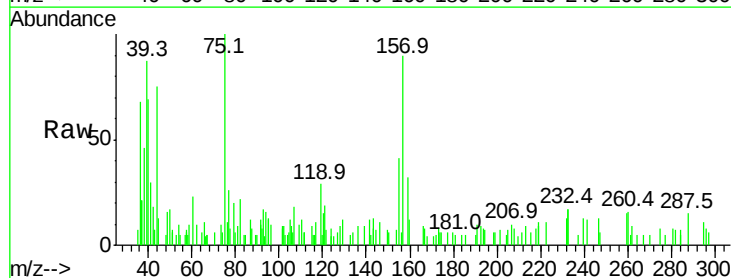
Instrument :
MSVOA_R
ClientSampleId :
VSTD00189

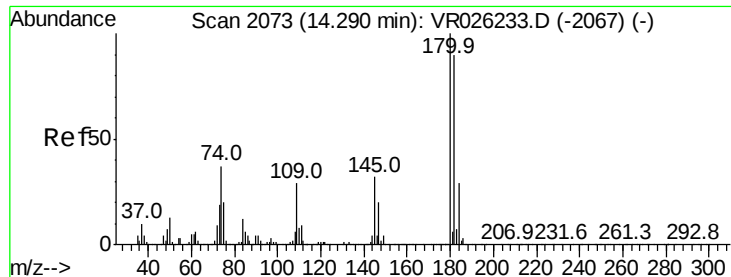
Tgt Ion:146 Resp: 50614
Ion Ratio Lower Upper
146 100
111 45.5 33.7 50.5
148 68.1 48.2 72.4



#66
1,2-Dibromo-3-chloropropane
Concen: 0.957 ug/L
RT: 14.14 min Scan# 2049
Delta R.T. -0.01 min
Lab File: VR026232.D
Acq: 20 Nov 2018 15:46

Tgt Ion: 75 Resp: 1733
Ion Ratio Lower Upper
75 100
155 40.7 46.0 69.0#
157 90.5 65.5 98.3

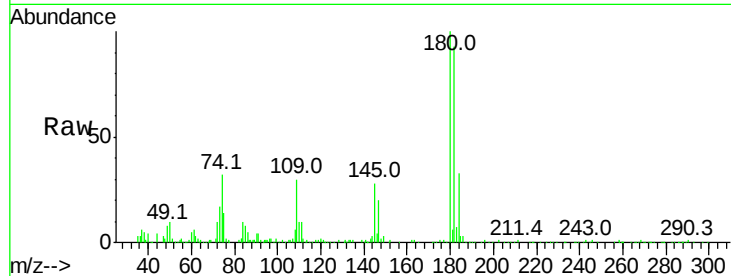




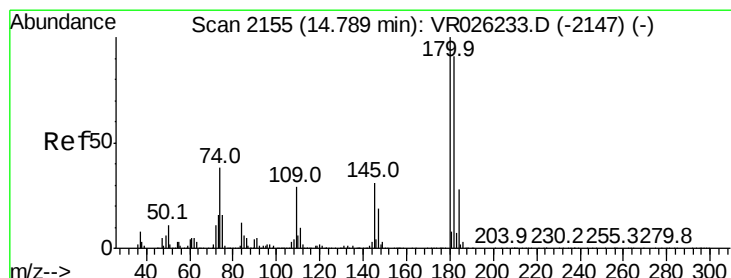
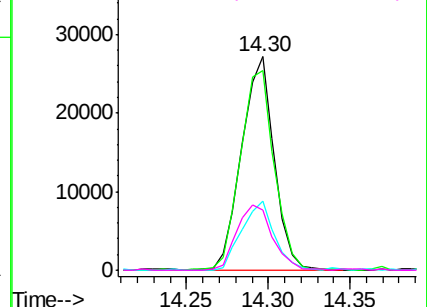
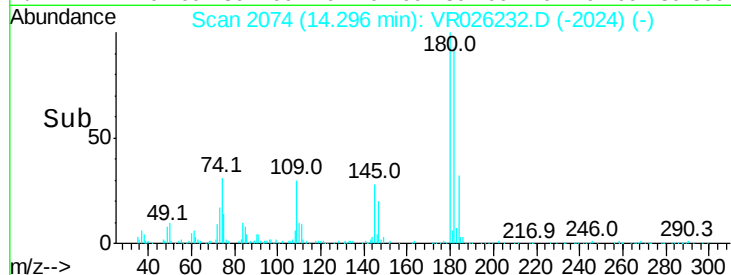
#67
 1,3,5-Trichlorobenzene
 Concen: 1.043 ug/L
 RT: 14.30 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00189

Tgt Ion:180 Resp: 37818
 Ion Ratio Lower Upper
 180 100
 182 96.8 76.5 114.7
 184 32.8 24.7 37.1
 145 33.7 26.2 39.4

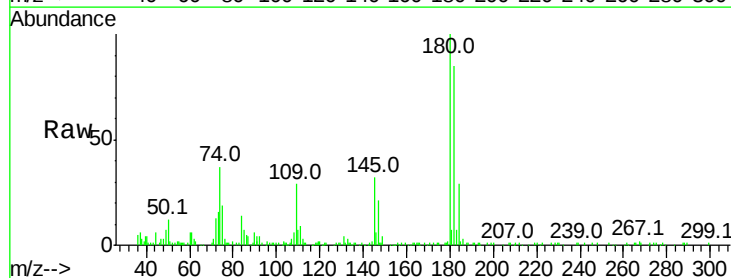


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

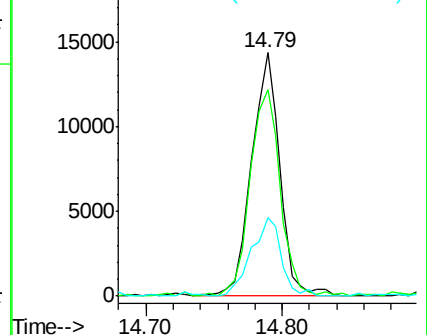
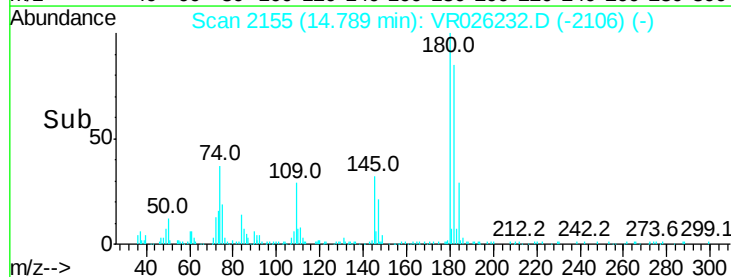


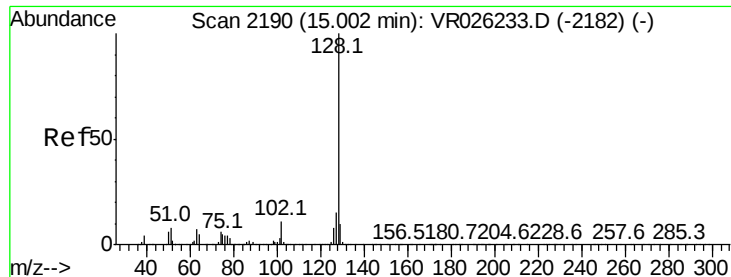
#68
 1,2,4-trichlorobenzene
 Concen: 1.033 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VR026232.D
 Acq: 20 Nov 2018 15:46

Tgt Ion:180 Resp: 20908
 Ion Ratio Lower Upper
 180 100
 182 88.5 76.2 114.4
 145 34.4 26.2 39.4



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





#69

Naphthalene

Concen: 0.823 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

Instrument :

MSVOA_R

ClientSampleId :

VSTD00189

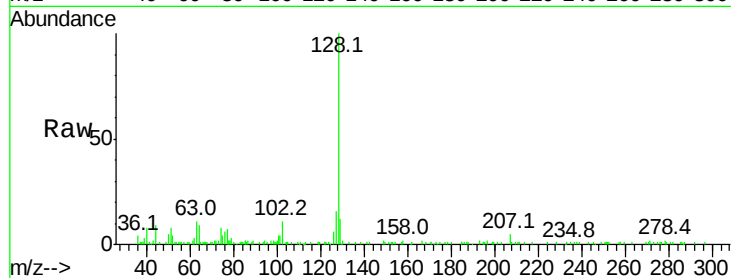
Tgt Ion:128 Resp: 17578

Ion Ratio Lower Upper

128 100

127 16.1 10.6 16.0#

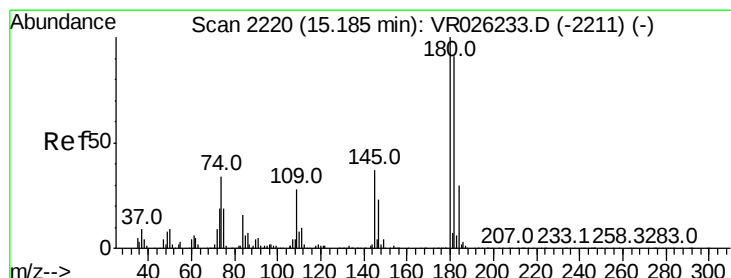
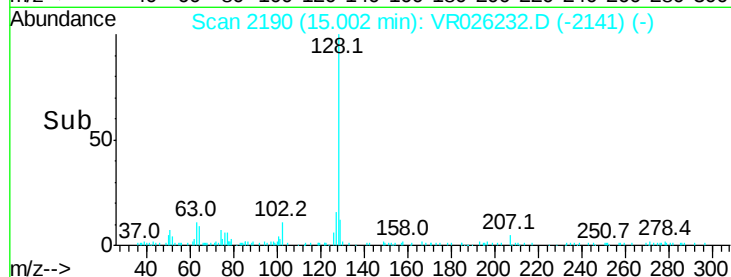
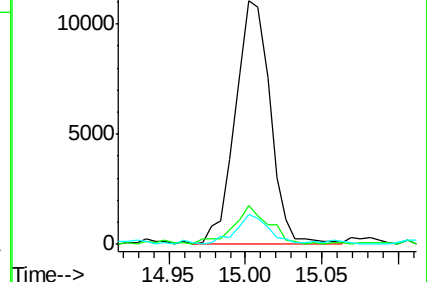
129 11.7 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.112 ug/L

RT: 15.18 min Scan# 2220

Delta R.T. -0.00 min

Lab File: VR026232.D

Acq: 20 Nov 2018 15:46

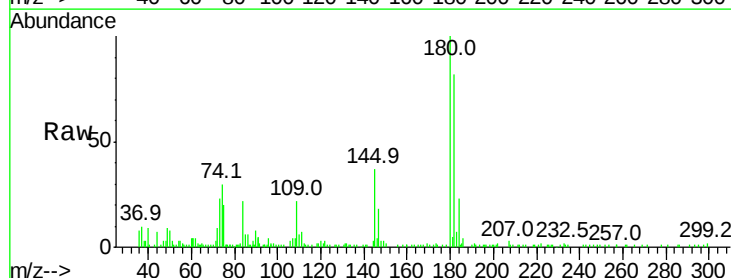
Tgt Ion:180 Resp: 15747

Ion Ratio Lower Upper

180 100

182 94.4 74.4 111.6

145 35.7 29.0 43.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

