

Data File : VW004028.D
Acq On : 18 Jul 2018 12:37
Operator : VA/AP
Sample : VSTD02583
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02583

Quant Time: Jul 18 13:09:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM071818S.M
Quant Title : VOC Analysis
QLast Update : Wed Jul 18 13:05:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	318566	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.64	117	292650	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	146088	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	64594	16.86	ug/L	0.00
7) Chloroethane-d5	2.89	69	47373	15.77	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	158079	19.27	ug/L	0.00
20) 2-Butanone-d5	7.09	46	93663	70.30	ug/L	-0.01
24) Chloroform-d	7.65	84	165437	20.34	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	99709	20.51	ug/L	0.00
29) Benzene-d6	8.28	84	300033	20.06	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	100681	20.62	ug/L	0.00
37) Toluene-d8	10.33	98	274894	19.57	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	45109	20.37	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	65380	69.62	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	115922	26.07	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.87	152	104935	20.01	ug/L	0.00

Target Compounds

						Qvalue
3) Chloromethane	2.21	50	62619	20.493	ug/L	96
5) Vinyl chloride	2.36	62	97337	20.956	ug/L	99
6) Bromomethane	2.78	94	51672	20.390	ug/L	100
8) Chloroethane	2.92	64	52377	18.942	ug/L	98
9) Trichlorofluoromethane	3.25	101	48510	19.502	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	92202	23.261	ug/L	98
12) 1,1-Dichloroethene	4.03	96	90478	23.227	ug/L	98
13) Acetone	4.12	43	81150	60.321	ug/L	99
14) Carbon disulfide	4.37	76	290792	23.042	ug/L	100
15) Methyl Acetate	4.67	43	80065	32.301	ug/L	99
16) Methylene chloride	4.91	84	111141	24.417	ug/L	96
17) Methyl tert-butyl Ether	5.43	73	177676	23.696	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	95568	22.952	ug/L	97
19) 1,1-Dichloroethane	6.21	63	183090	23.319	ug/L	99
21) 2-Butanone	7.18	43	111910	68.199	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	102445	23.109	ug/L	95
23) Bromochloromethane	7.51	128	47332	23.225	ug/L	96
25) Chloroform	7.68	83	185549	23.010	ug/L	99
27) 1,2-Dichloroethane	8.40	62	138083	23.756	ug/L	99
30) Cyclohexane	7.96	56	166736	24.735	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	147060	22.846	ug/L	99
32) Carbon tetrachloride	8.07	117	141906	23.294	ug/L	100
34) Benzene	8.32	78	413333	24.149	ug/L	100
35) Trichloroethene	9.10	95	107892	23.536	ug/L	100
36) Methylcyclohexane	9.34	83	188220	24.356	ug/L	99
40) 1,2-Dichloropropane	9.37	63	108810	23.894	ug/L	99
41) Bromodichloromethane	9.65	83	134394	23.339	ug/L	99
42) cis-1,3-Dichloropropene	10.08	75	157874	23.418	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	209371	66.100	ug/L	99
44) Toluene	10.39	91	445356	24.336	ug/L	98

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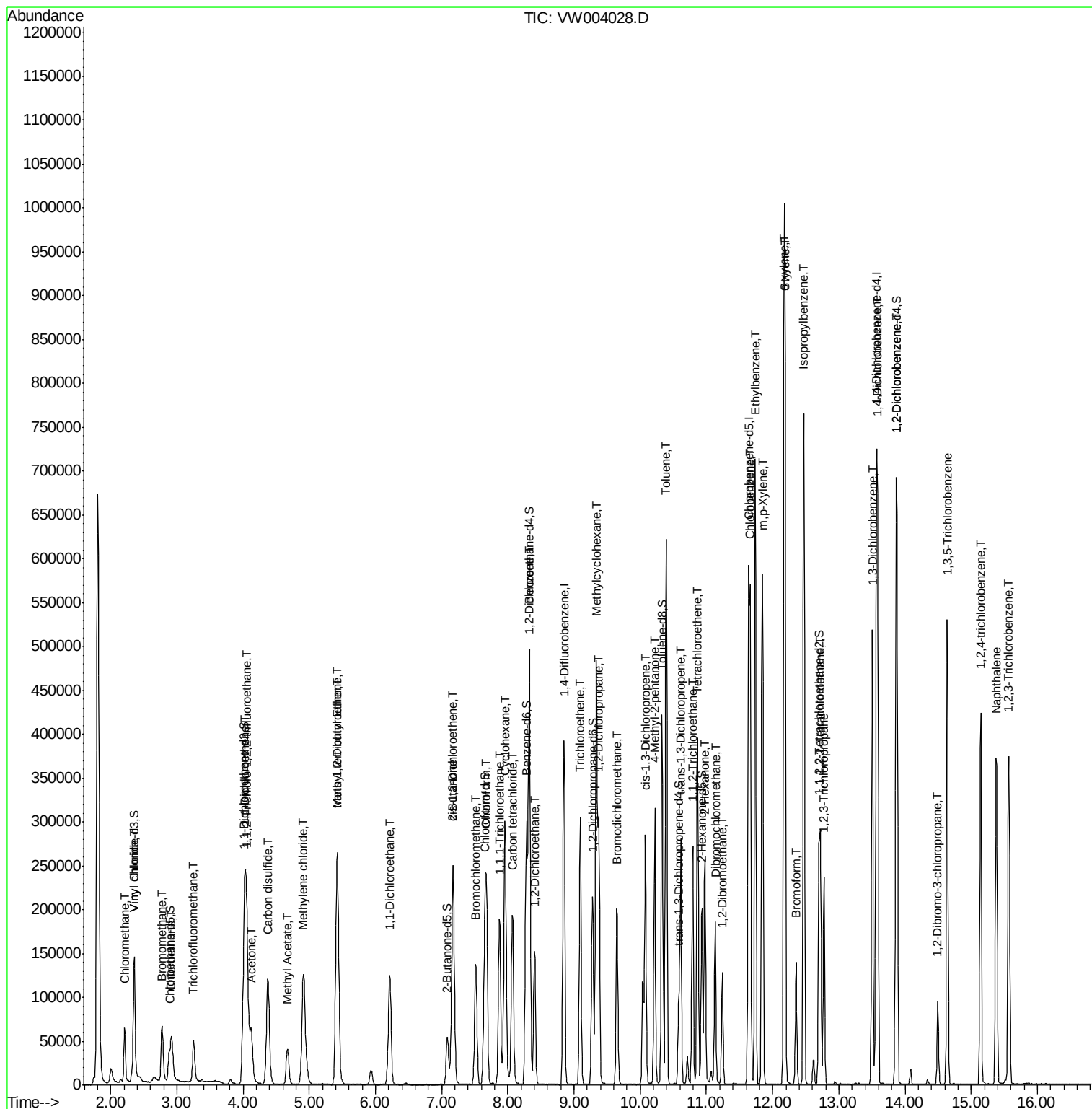
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.61	75	145887	23.814	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	83976	24.836	ug/L	99
47) Tetrachloroethene	10.87	164	88789	23.806	ug/L	95
49) 2-Hexanone	10.98	43	163404	68.129	ug/L	99
50) Dibromochloromethane	11.13	129	93802	23.280	ug/L	95
51) 1,2-Dibromoethane	11.24	107	83810	25.443	ug/L	98
52) Chlorobenzene	11.66	112	271631	22.754	ug/L	99
53) Ethylbenzene	11.74	91	482386	23.268	ug/L	100
54) m,p-Xylene	11.85	106	181856	23.855	ug/L	99
55) o-xylene	12.17	106	172435	24.015	ug/L	97
56) Styrene	12.19	104	301641	24.216	ug/L	100
57) Isopropylbenzene	12.47	105	475488	23.836	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	121600	27.393	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	95612	28.202	ug/L	99
62) Bromoform	12.35	173	62893	25.745	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	206379	22.822	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	216897	22.663	ug/L	100
65) 1,2-Dichlorobenzene	13.88	146	199371	22.858	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	23720	30.730	ug/L	98
67) 1,3,5-Trichlorobenzene	14.64	180	161678	22.878	ug/L	100
68) 1,2,4-trichlorobenzene	15.15	180	130385	22.790	ug/L	99
69) Naphthalene	15.38	128	313692	27.210	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	126294	23.756	ug/L	99

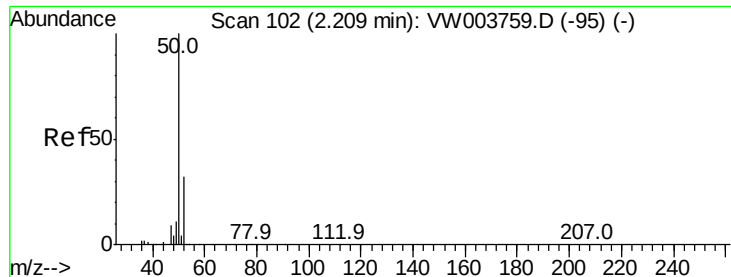
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 20.493 ug/L

RT: 2.21 min Scan# 102

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

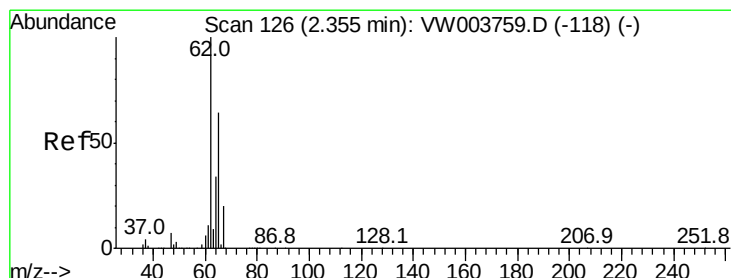
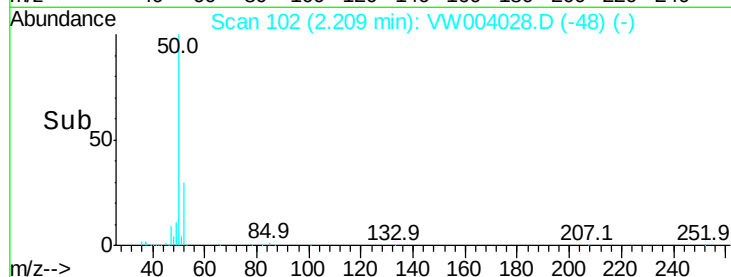
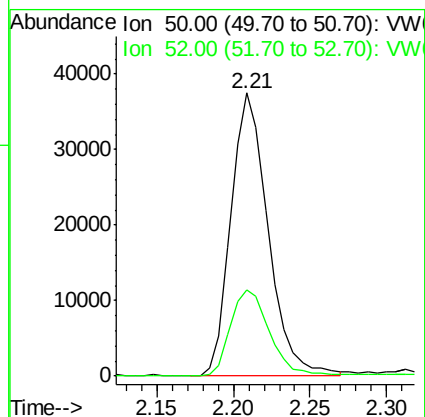
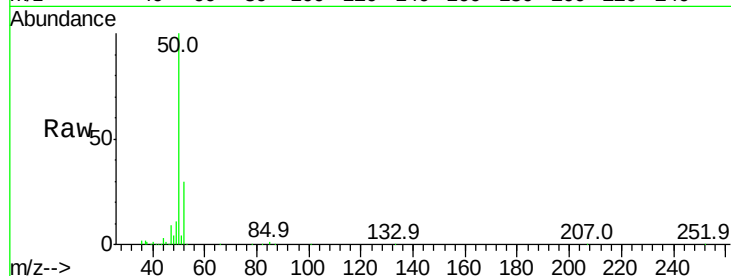
VSTD02583

Tgt Ion: 50 Resp: 62619

Ion Ratio Lower Upper

50 100

52 30.5 22.7 42.3



#5

Vinyl chloride

Concen: 20.956 ug/L

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW004028.D

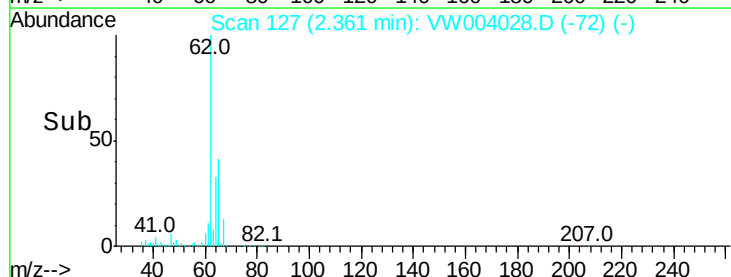
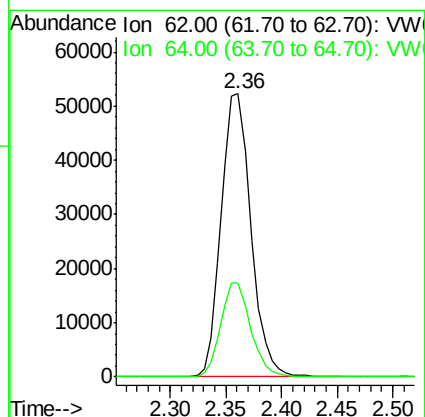
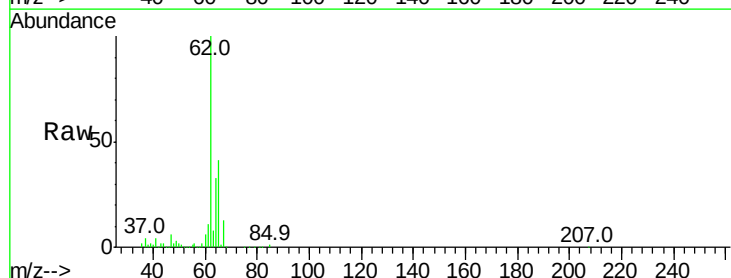
Acq: 18 Jul 2018 12:37

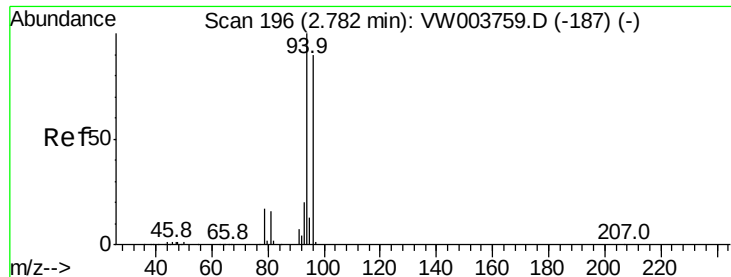
Tgt Ion: 62 Resp: 97337

Ion Ratio Lower Upper

62 100

64 33.0 23.4 43.6





#6

Bromomethane

Concen: 20.390 ug/L

RT: 2.78 min Scan# 195

Delta R.T. -0.01 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Instrument :

MSVOA_W

ClientSampleId :

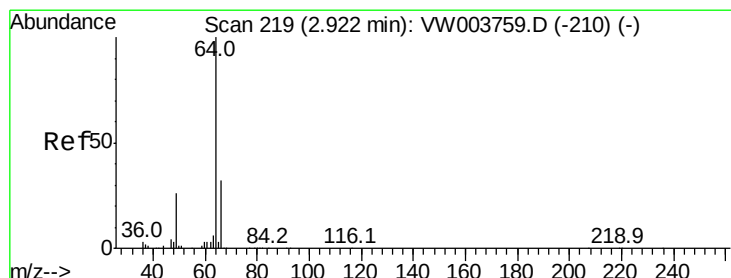
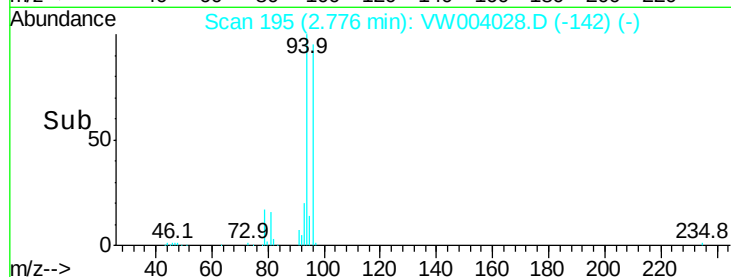
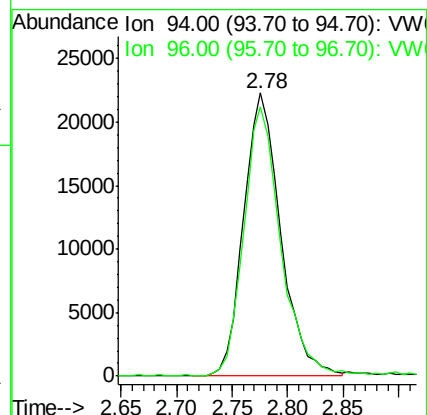
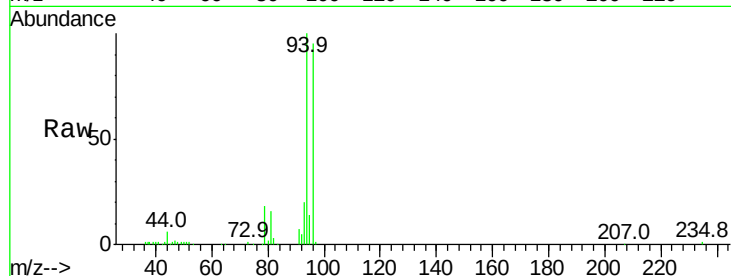
VSTD02583

Tgt Ion: 94 Resp: 51672

Ion Ratio Lower Upper

94 100

96 94.7 9.4 179.5



#8

Chloroethane

Concen: 18.942 ug/L

RT: 2.92 min Scan# 219

Delta R.T. -0.00 min

Lab File: VW004028.D

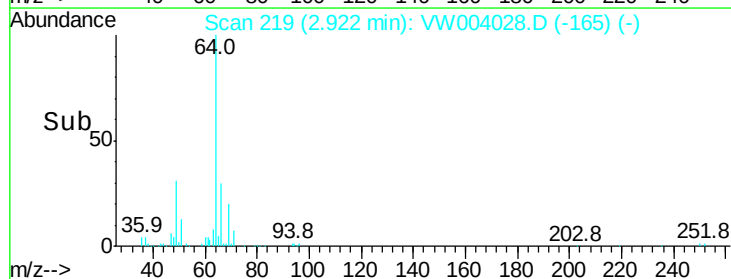
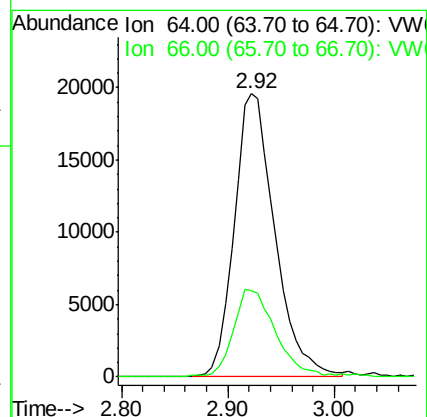
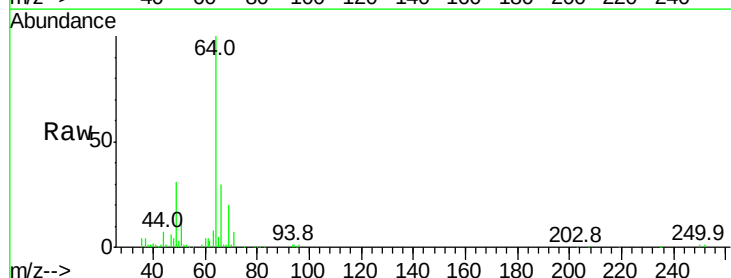
Acq: 18 Jul 2018 12:37

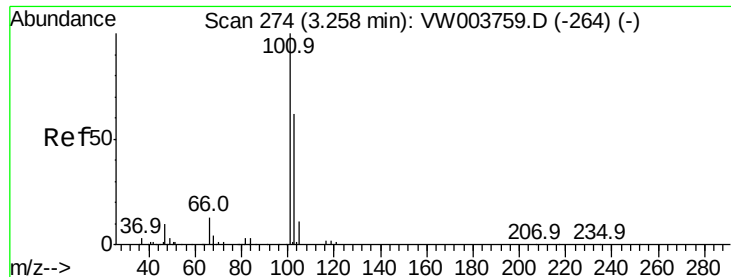
Tgt Ion: 64 Resp: 52377

Ion Ratio Lower Upper

64 100

66 30.3 22.1 41.1



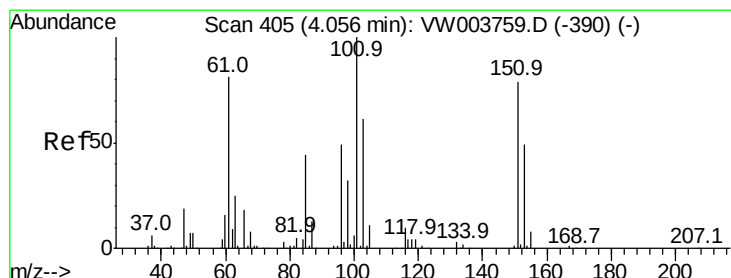
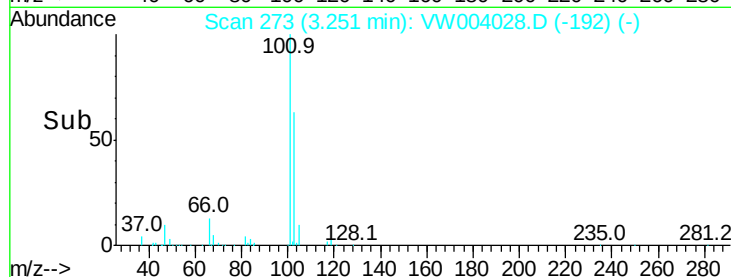
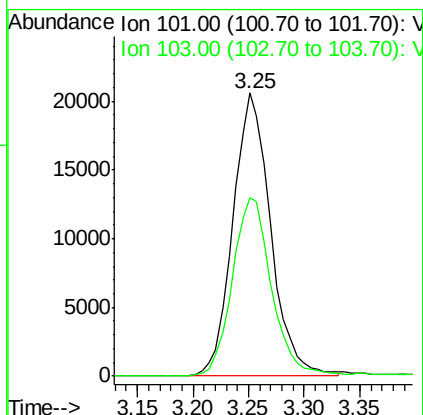
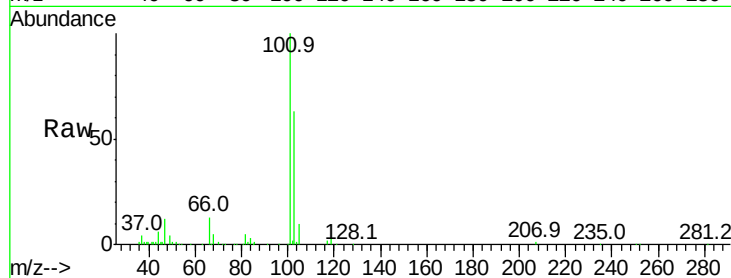


#9

Trichlorofluoromethane
 Concen: 19.502 ug/L
 RT: 3.25 min Scan# 273
 Delta R.T. -0.01 min
 Lab File: VW004028.D
 Acq: 18 Jul 2018 12:37

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02583

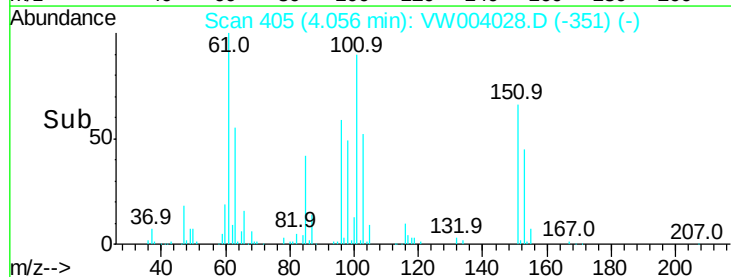
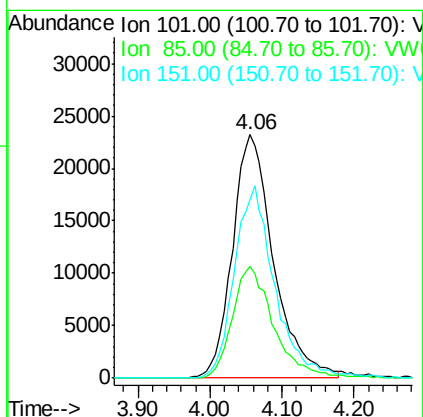
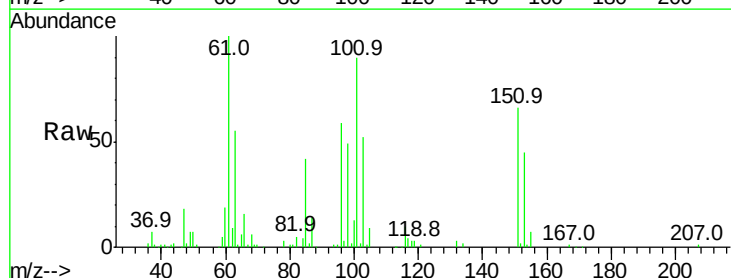
Tgt Ion:101 Resp: 48510
 Ion Ratio Lower Upper
 101 100
 103 65.2 44.5 82.7

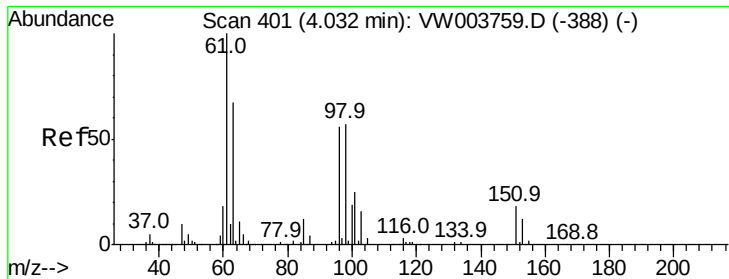


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 23.261 ug/L
 RT: 4.06 min Scan# 405
 Delta R.T. -0.00 min
 Lab File: VW004028.D
 Acq: 18 Jul 2018 12:37

Tgt Ion:101 Resp: 92202
 Ion Ratio Lower Upper
 101 100
 85 45.3 36.6 55.0
 151 74.4 61.4 92.0





#12

1,1-Dichloroethene

Concen: 23.227 ug/L

RT: 4.03 min Scan# 401

Delta R.T. -0.00 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Instrument :

MSVOA_W

ClientSampled :

VSTD02583

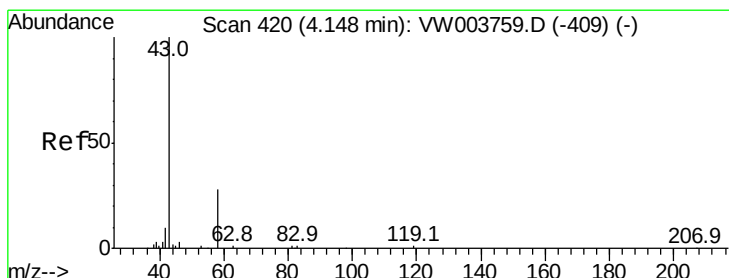
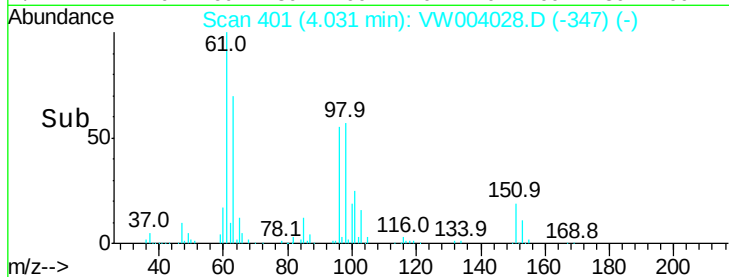
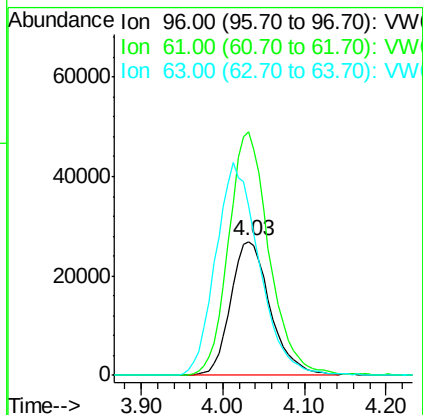
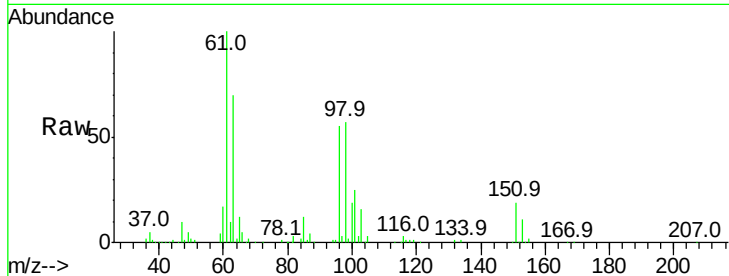
Tgt Ion: 96 Resp: 90478

Ion Ratio Lower Upper

96 100

61 181.9 126.2 234.4

63 126.5 85.8 159.4



#13

Acetone

Concen: 60.321 ug/L

RT: 4.12 min Scan# 416

Delta R.T. -0.02 min

Lab File: VW004028.D

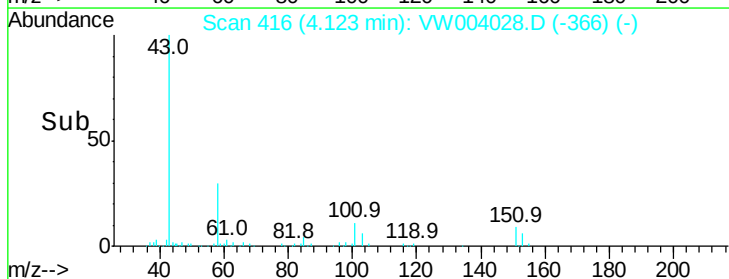
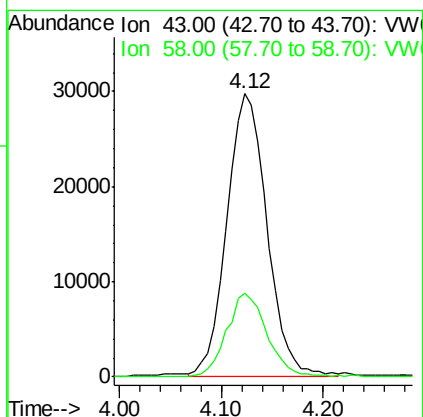
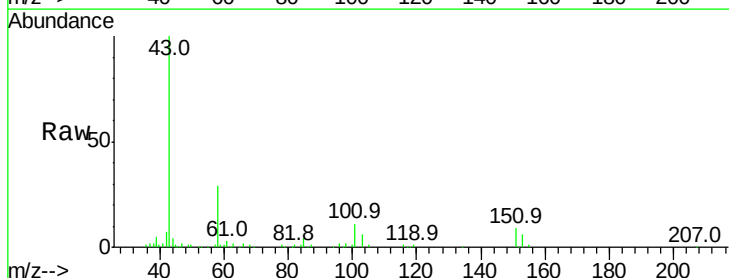
Acq: 18 Jul 2018 12:37

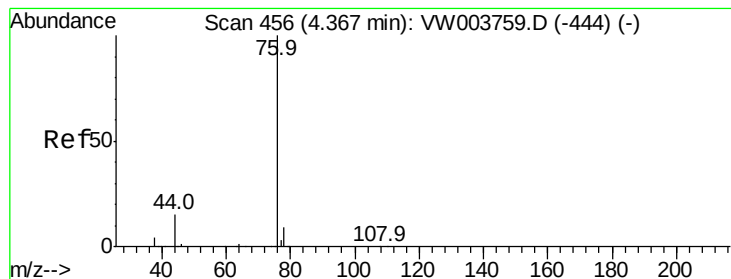
Tgt Ion: 43 Resp: 81150

Ion Ratio Lower Upper

43 100

58 29.7 0.0 58.2





#14

Carbon disulfide

Concen: 23.042 ug/L

RT: 4.37 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Instrument :

MSVOA_W

ClientSampleId :

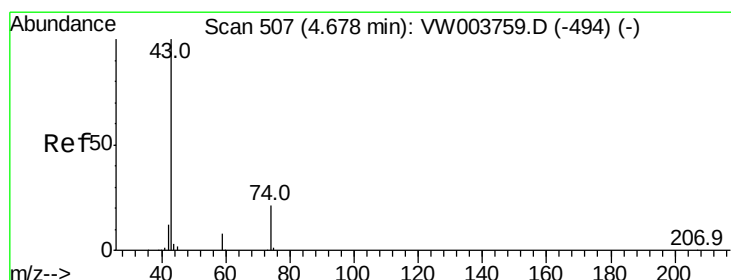
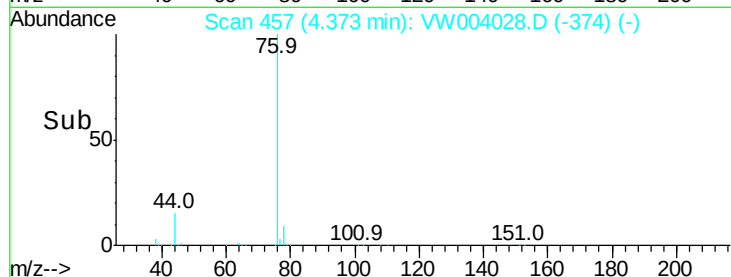
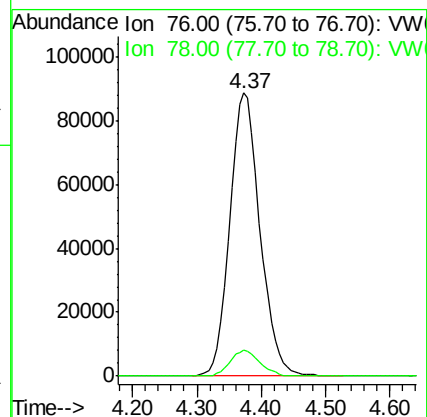
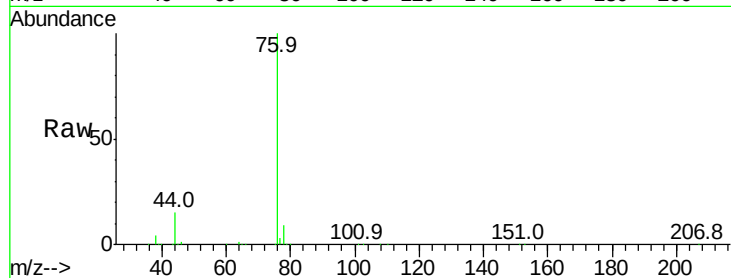
VSTD02583

Tgt Ion: 76 Resp: 290792

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



#15

Methyl Acetate

Concen: 32.301 ug/L

RT: 4.67 min Scan# 506

Delta R.T. -0.01 min

Lab File: VW004028.D

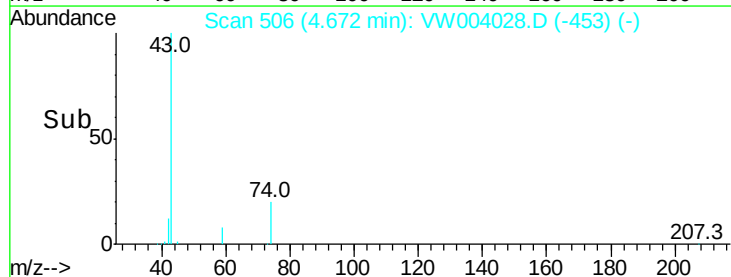
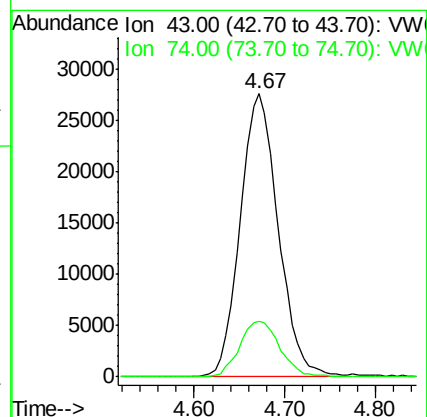
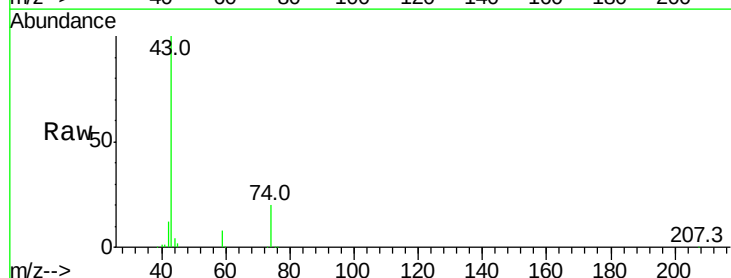
Acq: 18 Jul 2018 12:37

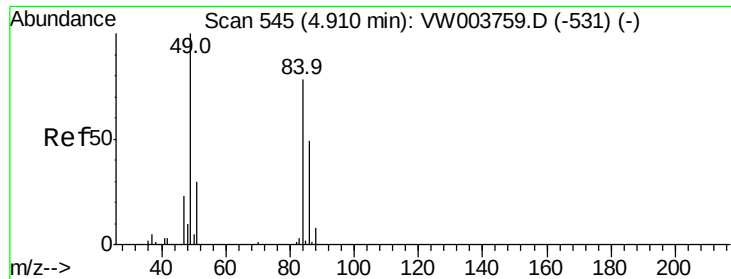
Tgt Ion: 43 Resp: 80065

Ion Ratio Lower Upper

43 100

74 20.7 17.0 25.4

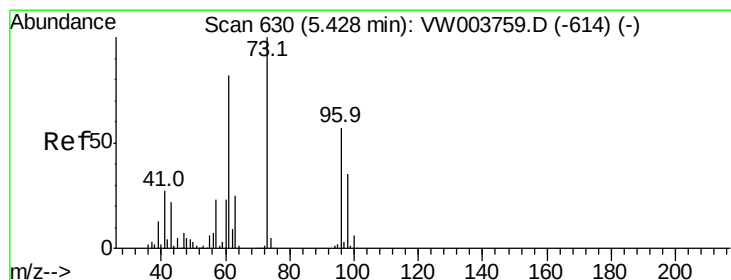
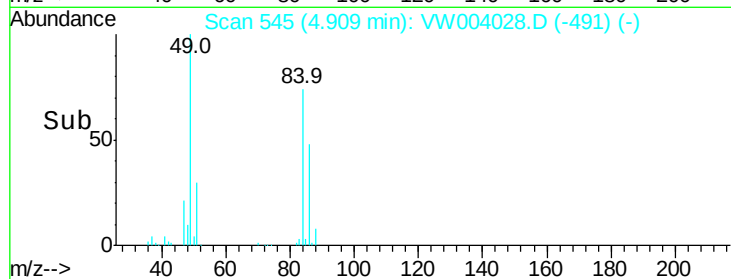
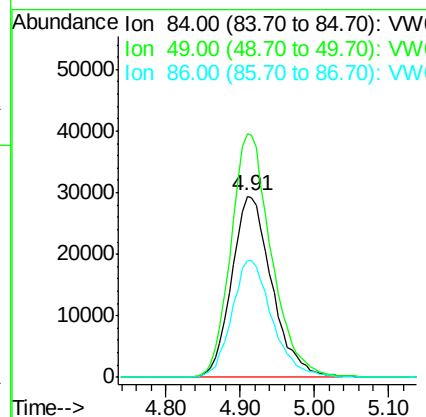
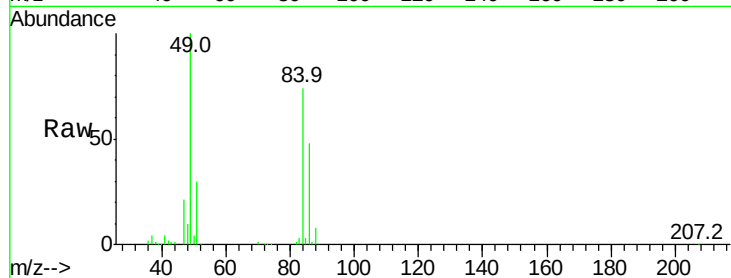




#16
Methylene chloride
Concen: 24.417 ug/L
RT: 4.91 min Scan# 545
Delta R.T. -0.00 min
Lab File: VW004028.D
Acq: 18 Jul 2018 12:37

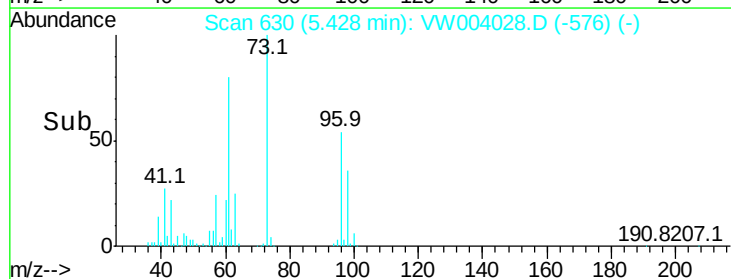
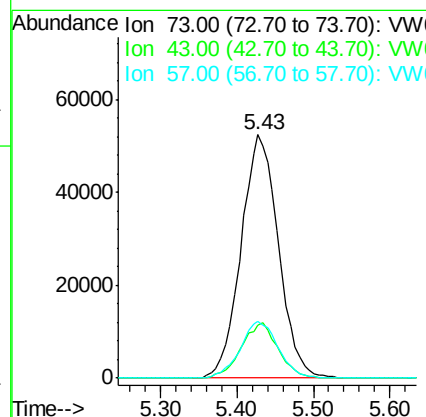
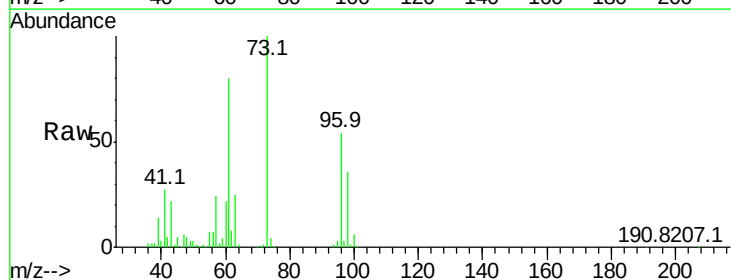
Instrument :
MSVOA_W
ClientSampled :
VSTD02583

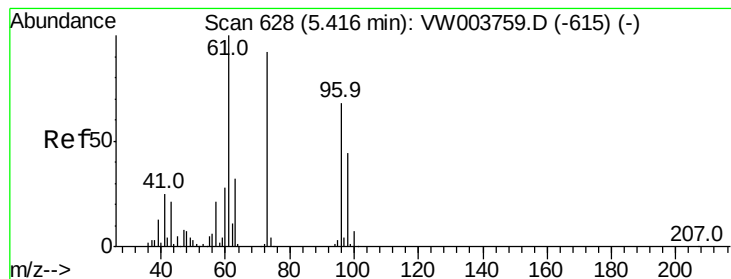
Tgt Ion: 84 Resp: 111141
Ion Ratio Lower Upper
84 100
49 134.6 89.9 166.9
86 64.5 43.9 81.5



#17
Methyl tert-butyl Ether
Concen: 23.696 ug/L
RT: 5.43 min Scan# 630
Delta R.T. -0.00 min
Lab File: VW004028.D
Acq: 18 Jul 2018 12:37

Tgt Ion: 73 Resp: 177676
Ion Ratio Lower Upper
73 100
43 22.6 18.2 27.4
57 23.7 18.6 28.0





#18

trans-1,2-Dichloroethene

Concen: 22.952 ug/L

RT: 5.42 min Scan# 629

Delta R.T. 0.01 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Instrument :

MSVOA_W

ClientSampleId :

VSTD02583

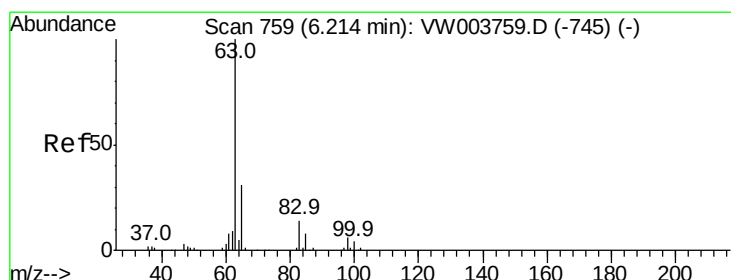
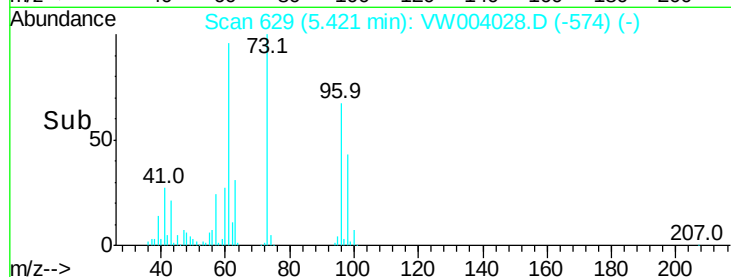
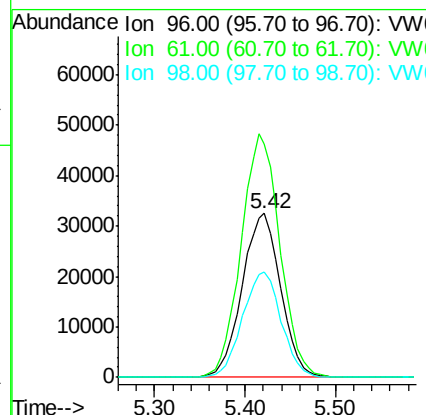
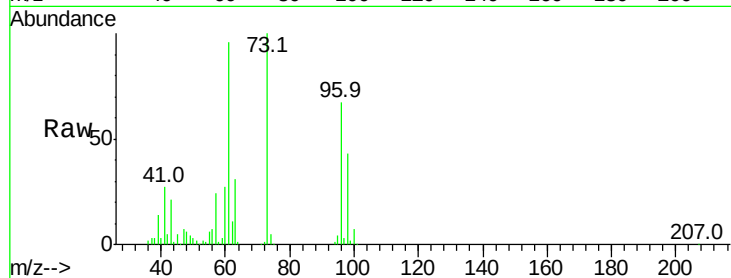
Tgt Ion: 96 Resp: 95568

Ion Ratio Lower Upper

96 100

61 142.6 103.0 191.2

98 64.1 45.8 85.2



#19

1,1-Dichloroethane

Concen: 23.319 ug/L

RT: 6.21 min Scan# 759

Delta R.T. -0.00 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

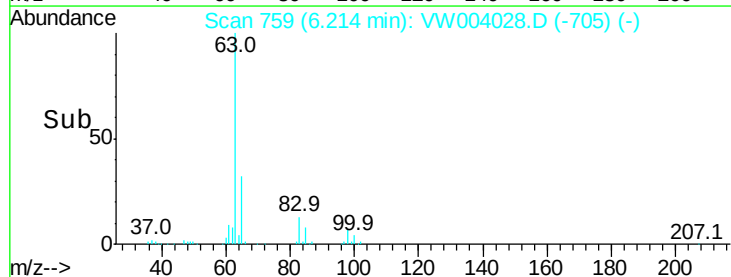
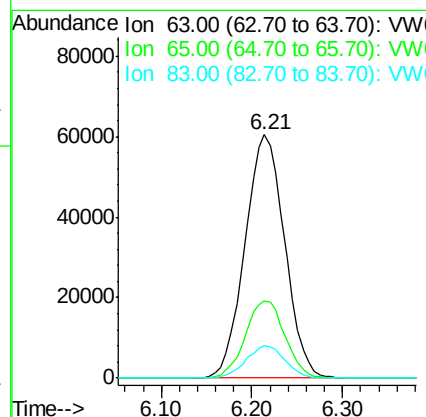
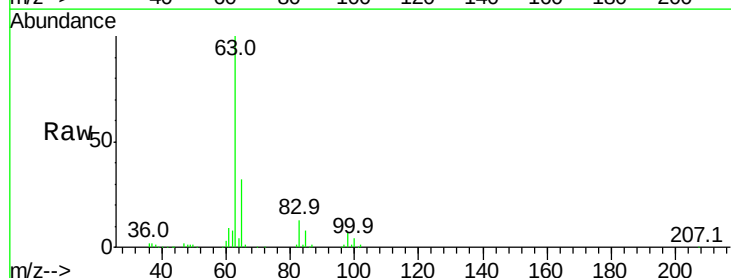
Tgt Ion: 63 Resp: 183090

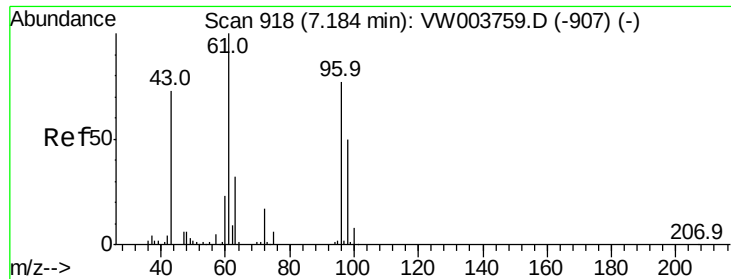
Ion Ratio Lower Upper

63 100

65 32.0 21.9 40.7

83 13.2 9.6 17.8





#21

2-Butanone

Concen: 68.199 ug/L

RT: 7.18 min Scan# 917

Delta R.T. -0.01 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Instrument :

MSVOA_W

ClientSampleId :

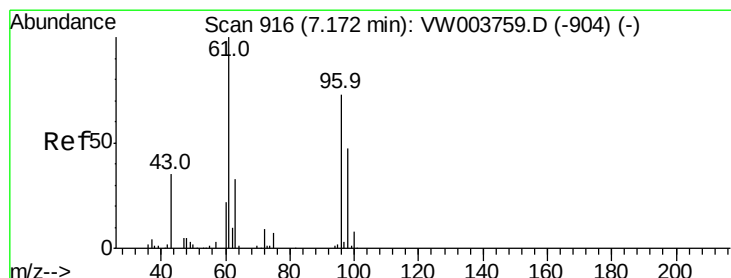
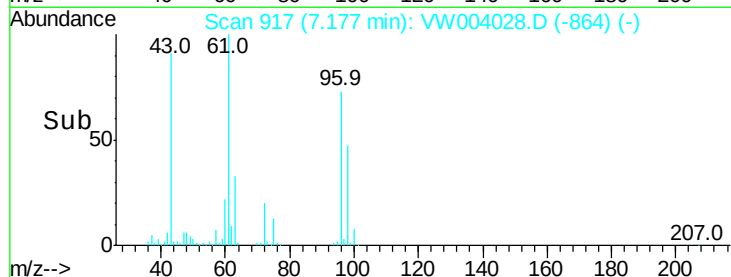
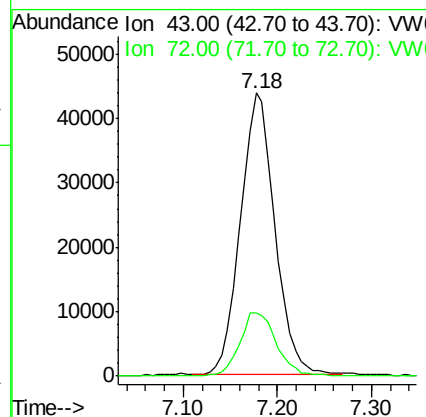
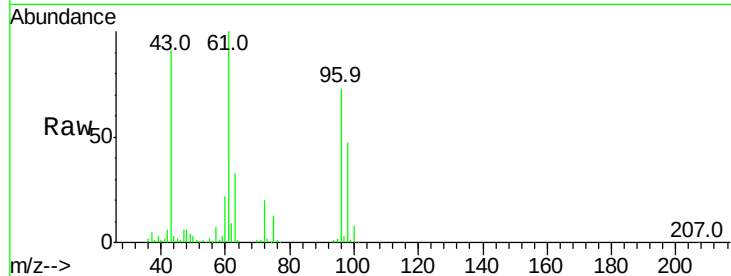
VSTD02583

Tgt Ion: 43 Resp: 111910

Ion Ratio Lower Upper

43 100

72 24.2 12.3 36.9



#22

cis-1,2-Dichloroethene

Concen: 23.109 ug/L

RT: 7.17 min Scan# 916

Delta R.T. -0.00 min

Lab File: VW004028.D

Acq: 18 Jul 2018 12:37

Tgt Ion: 96 Resp: 102445

Ion Ratio Lower Upper

96 100

61 132.2 96.4 179.0

98 61.5 45.6 84.8

