

Data File : VR025537.D
Acq On : 30 Jul 2018 11:56
Operator : SY/MD
Sample : VSTD0.581
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
VSTD0.581

Quant Time: Jul 30 15:00:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR073018WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jul 30 15:00:06 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.47	114	639538	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	517890	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	207690	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	19058	1.08	ug/L	0.00
7) Chloroethane-d5	2.64	69	15143	1.01	ug/L	0.00
11) 1,1-Dichloroethene-d2	3.64	63	43624	0.82	ug/L	0.00
20) 2-Butanone-d5	6.60	46	12485	2.28	ug/L	0.00
24) Chloroform-d	7.20	84	31901	0.37	ug/L	0.00
26) 1,2-Dichloroethane-d4	7.90	65	9696	0.29	ug/L	0.00
32) Benzene-d6	7.86	84	64387	0.37	ug/L	0.00
36) 1,2-Dichloropropane-d6	8.90	67	16654	0.33	ug/L	0.00
41) Toluene-d8	9.97	98	59805	0.39	ug/L	0.00
43) trans-1,3-Dichloropropene-	10.24	79	3778	0.28	ug/L	0.00
46) 2-Hexanone-d5	10.59	63	9655	2.24	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	12.36	84	7517	0.33	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	13.51	152	15222	0.44	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	16831	0.466 ug/L	93
3) Chloromethane	2.01	50	23508	1.098 ug/L	89
5) Vinyl chloride	2.16	62	21992	1.143 ug/L	96
6) Bromomethane	2.53	94	13345	1.178 ug/L	78
8) Chloroethane	2.67	64	12249	1.022 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	19302	1.008 ug/L	99
12) 1,1-Dichloroethene	3.67	96	22708	1.188 ug/L	78
13) Acetone	3.71	43	13706	5.555 ug/L	87
14) Carbon disulfide	3.97	76	42940	0.987 ug/L	96
15) Methyl Acetate	4.19	43	5230	0.947 ug/L #	89
16) Methylene chloride	4.41	84	15944	0.851 ug/L	95
17) Methyl tert-butyl Ether	4.90	73	20616	0.331 ug/L #	74
18) trans-1,2-Dichloroethene	4.89	96	20908	0.440 ug/L	96
19) 1,1-Dichloroethane	5.70	63	30219	0.370 ug/L	98
21) 2-Butanone	6.70	43	16247	2.827 ug/L	87
22) cis-1,2-Dichloroethene	6.68	96	17136	0.393 ug/L	91
23) Bromochloromethane	7.06	128	6352	0.452 ug/L #	90
25) Chloroform	7.24	83	29741	0.379 ug/L	80
27) 1,2-Dichloroethane	7.99	62	11651	0.332 ug/L #	88
29) 1,1,1-Trichloroethane	7.43	97	22020	0.418 ug/L	97
30) Cyclohexane	7.53	56	19173	0.339 ug/L	97
31) Carbon tetrachloride	7.64	117	22892	0.491 ug/L	97
33) Benzene	7.91	78	75544	0.423 ug/L	100
34) Trichloroethene	8.71	95	20227	0.445 ug/L	89
35) Methylcyclohexane	8.96	83	21915	0.361 ug/L	94
37) 1,2-Dichloropropane	9.01	63	15677	0.378 ug/L #	97
38) Bromodichloromethane	9.28	83	17073	0.404 ug/L #	87
39) cis-1,3-Dichloropropene	9.72	75	13720	0.294 ug/L	89
40) 4-Methyl-2-pentanone	9.87	43	34081	2.834 ug/L	98
42) Toluene	10.04	91	72385	0.417 ug/L	98

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

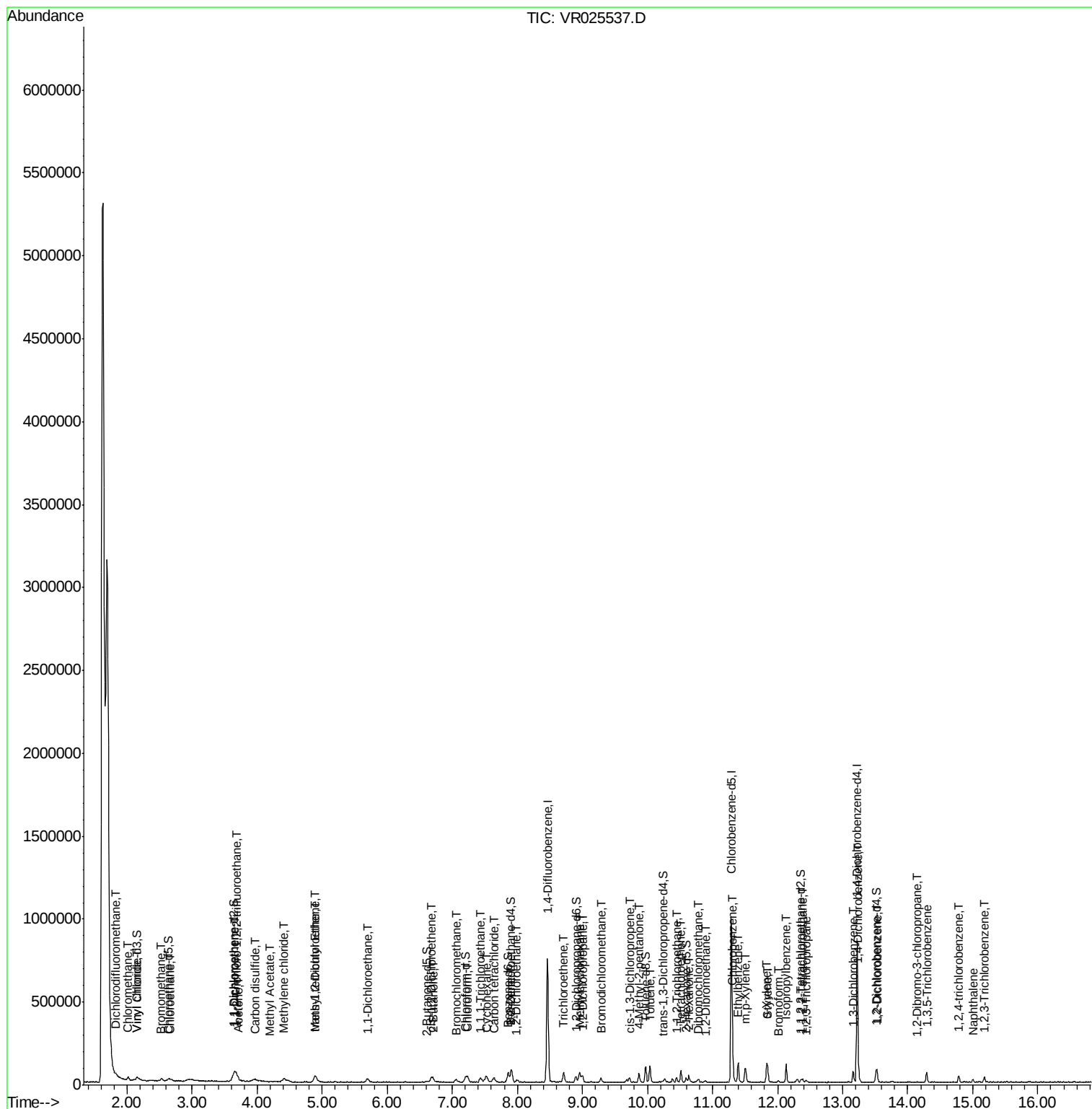
45) 1,1,2-Trichloroethane	10.44	97	7979	0.392	ug/L	89
47) Tetrachloroethene	10.52	164	15873	0.535	ug/L	92
48) 2-Hexanone	10.64	43	23280	2.814	ug/L	95
49) Dibromochloromethane	10.79	129	8333	0.393	ug/L	74
50) 1,2-Dibromoethane	10.89	107	6396	0.388	ug/L #	88
51) Chlorobenzene	11.31	112	48687	0.461	ug/L	94
52) Ethylbenzene	11.40	91	75778	0.407	ug/L	98
53) m,p-Xylene	11.51	106	26807	0.384	ug/L	95
54) o-Xylene	11.83	106	24156	0.401	ug/L	92
55) Styrene	11.85	104	37627	0.380	ug/L	98
56) Isopropylbenzene	12.13	105	63052	0.396	ug/L	97
58) 1,1,2,2-Tetrachloroethane	12.39	83	7181	0.359	ug/L	96
59) 1,2,3-Trichloropropane	12.44	75	4820	0.334	ug/L #	86
61) Bromoform	12.01	173	4452	0.526	ug/L	87
62) 1,3-Dichlorobenzene	13.16	146	26036	0.428	ug/L	94
63) 1,4-Dichlorobenzene	13.24	146	31573	0.467	ug/L	95
65) 1,2-Dichlorobenzene	13.53	146	24112	0.456	ug/L #	87
66) 1,2-Dibromo-3-chloropropan	14.15	75	965	0.413	ug/L #	58
67) 1,3,5-Trichlorobenzene	14.29	180	18660	0.470	ug/L	97
68) 1,2,4-trichlorobenzene	14.79	180	11695	0.428	ug/L	93
69) Naphthalene	15.00	128	12243	0.350	ug/L #	95
70) 1,2,3-Trichlorobenzene	15.18	180	8425	0.400	ug/L	92

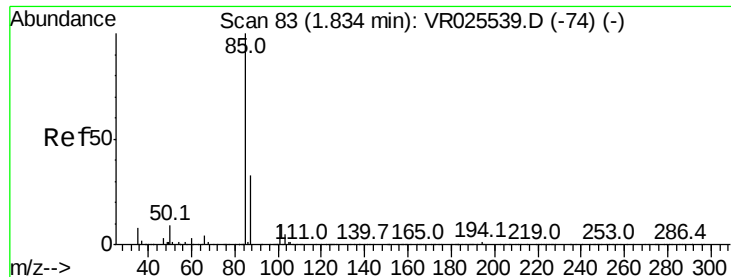
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.466 ug/L

RT: 1.83 min Scan# 82

Delta R.T. -0.01 min

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Instrument :

MSVOA_R

ClientSampleId :

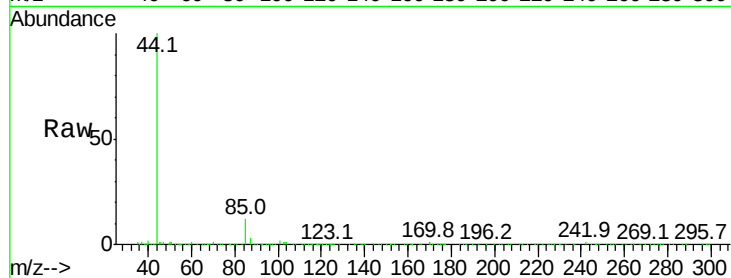
VSTD0.581

Tgt Ion: 85 Resp: 16831

Ion Ratio Lower Upper

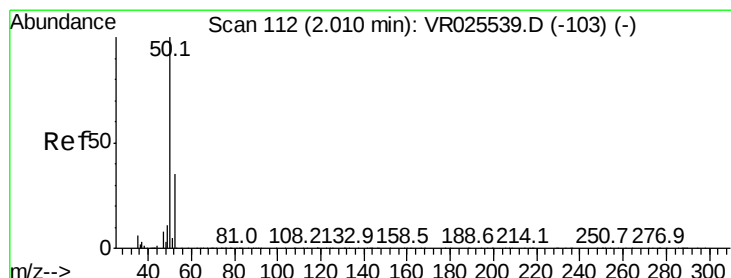
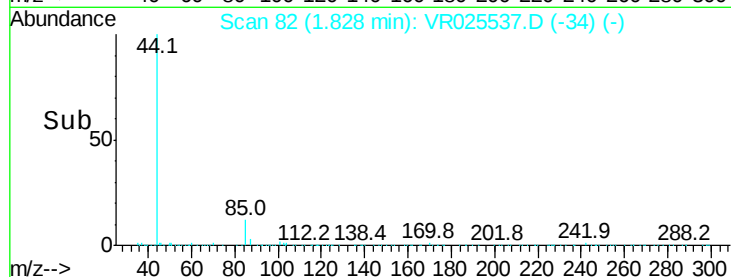
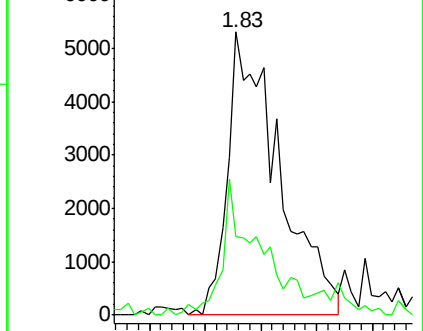
85 100

87 35.3 25.0 37.6



Abundance Ion 85.00 (84.70 to 85.70): VR0

Ion 87.00 (86.70 to 87.70): VR0



#3

Chloromethane

Concen: 1.098 ug/L

RT: 2.01 min Scan# 112

Delta R.T. 0.00 min

Lab File: VR025537.D

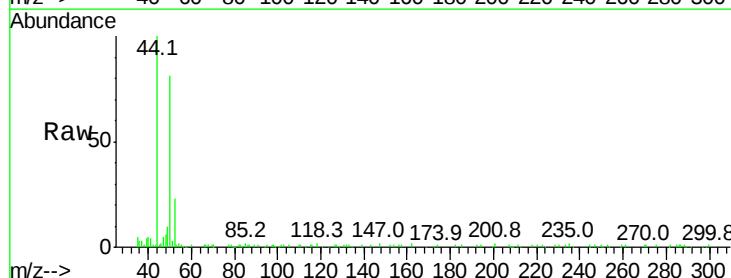
Acq: 30 Jul 2018 11:56

Tgt Ion: 50 Resp: 23508

Ion Ratio Lower Upper

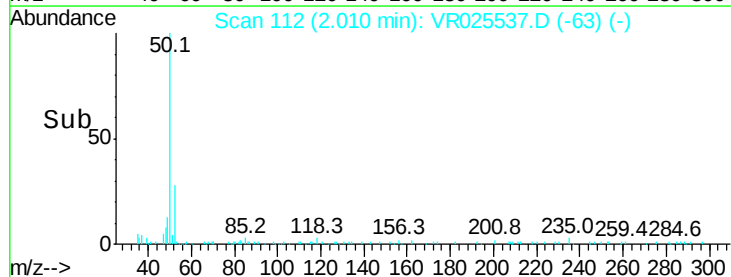
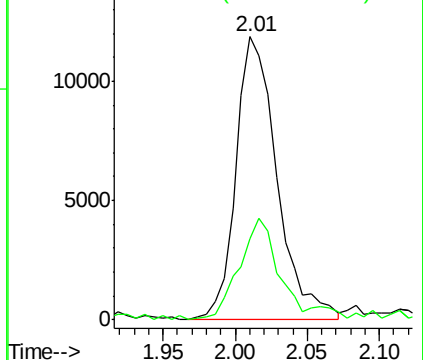
50 100

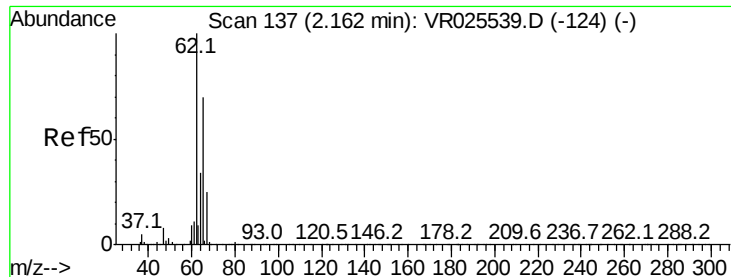
52 28.7 24.4 45.4



Abundance Ion 50.05 (49.75 to 50.75): VR0

Ion 52.05 (51.75 to 52.75): VR0





#5

Vinyl chloride

Concen: 1.143 ug/L

RT: 2.16 min Scan# 136

Delta R.T. -0.01 min

Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Instrument :

MSVOA_R

ClientSampleId :

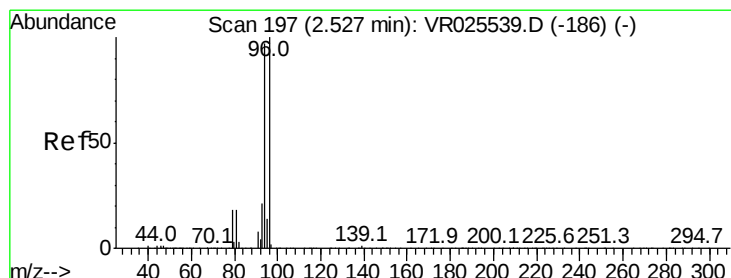
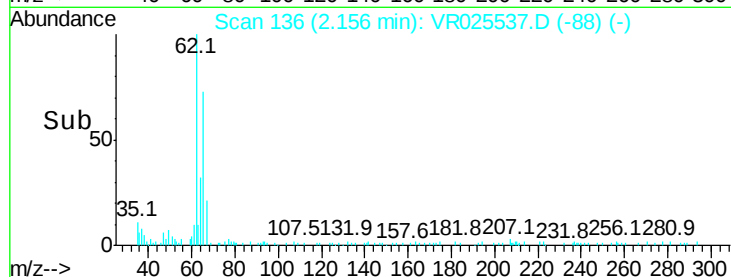
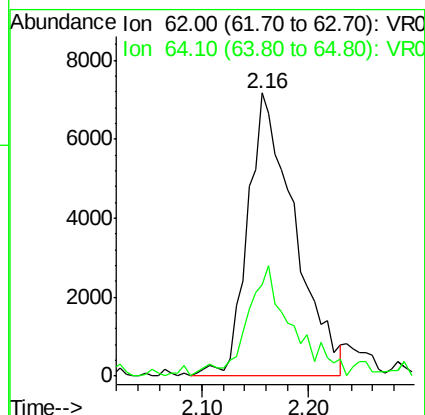
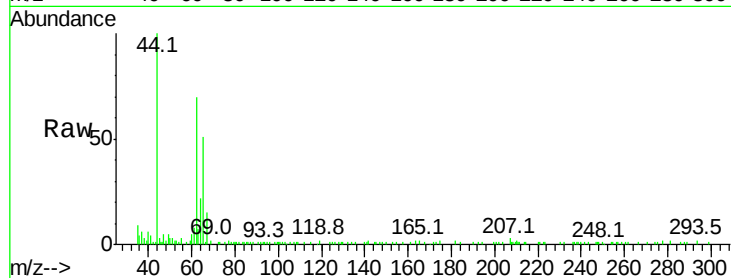
VSTD0.581

Tgt Ion: 62 Resp: 21992

Ion Ratio Lower Upper

62 100

64 32.1 24.1 44.8



#6

Bromomethane

Concen: 1.178 ug/L

RT: 2.53 min Scan# 197

Delta R.T. 0.00 min

Lab File: VR025537.D

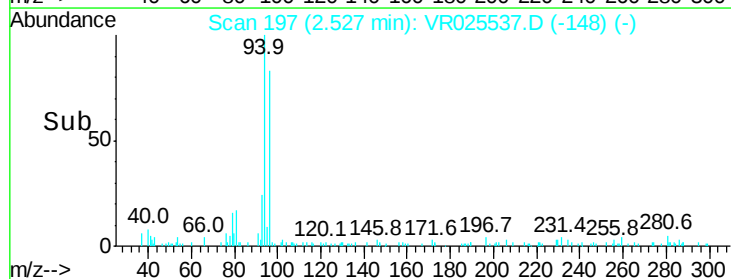
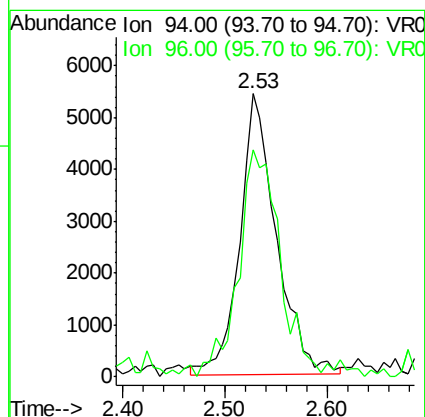
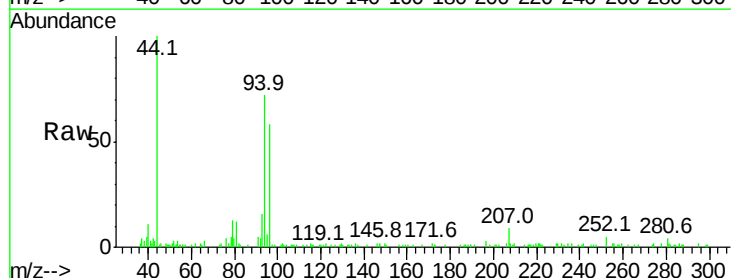
Acq: 30 Jul 2018 11:56

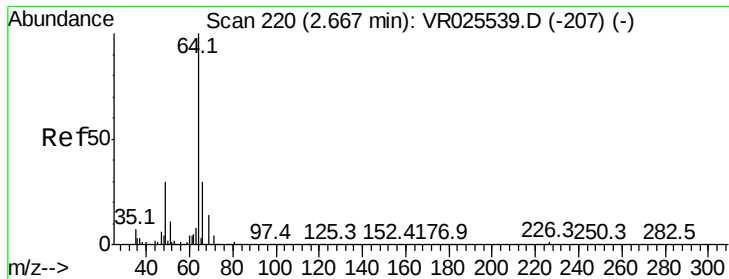
Tgt Ion: 94 Resp: 13345

Ion Ratio Lower Upper

94 100

96 80.2 72.0 133.6





#8

Chloroethane

Concen: 1.022 ug/L

RT: 2.67 min Scan# 220

Delta R.T. 0.00 min

Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Instrument :

MSVOA_R

ClientSampleId :

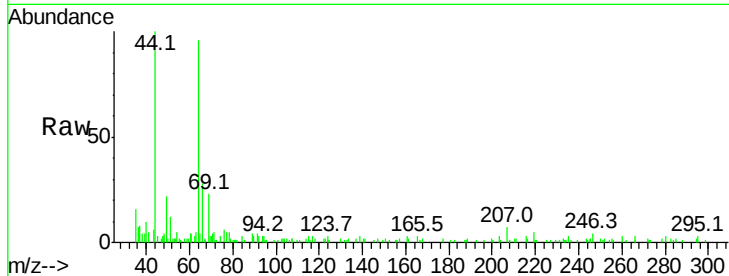
VSTD0.581

Tgt Ion: 64 Resp: 12249

Ion Ratio Lower Upper

64 100

66 28.7 20.9 38.9



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0

2.67

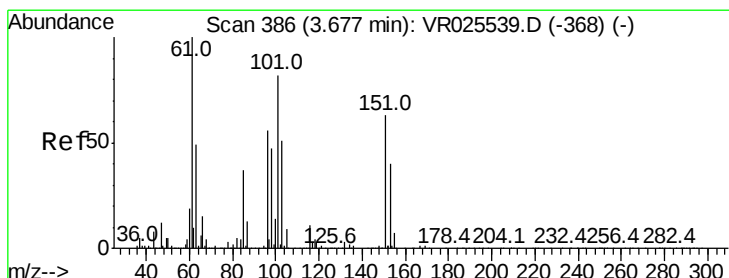
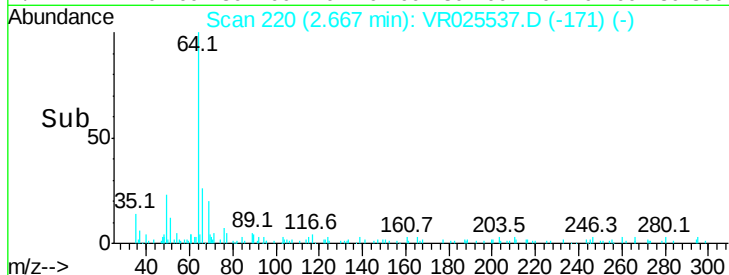
6000

4000

2000

0

Time-->



#10

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

Concen: 1.008 ug/L

RT: 3.68 min Scan# 387

Delta R.T. 0.01 min

Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

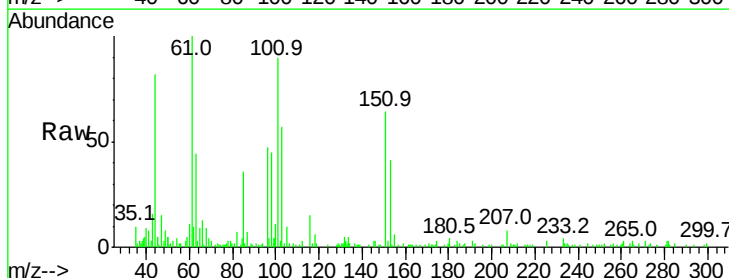
Tgt Ion: 101 Resp: 19302

Ion Ratio Lower Upper

101 100

85 47.9 37.4 56.0

151 77.7 61.9 92.9



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

8000

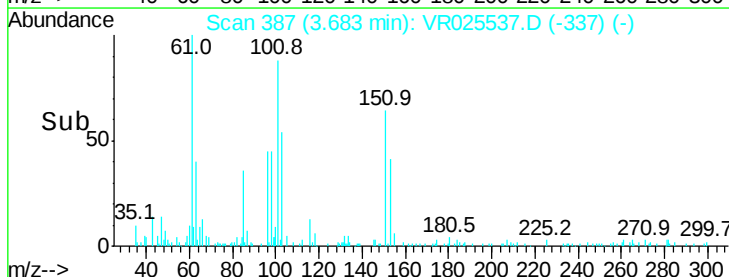
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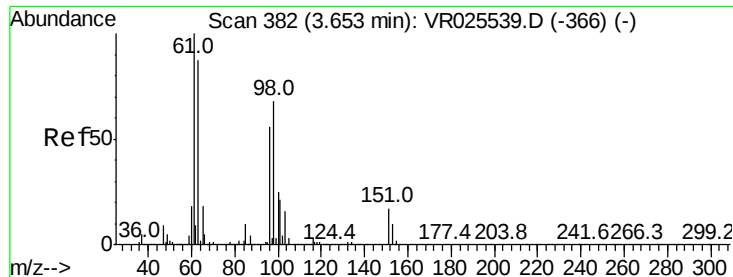
4000

2000

0

Time-->





#12

1,1-Dichloroethene

Concen: 1.188 ug/L

RT: 3.67 min Scan# 384

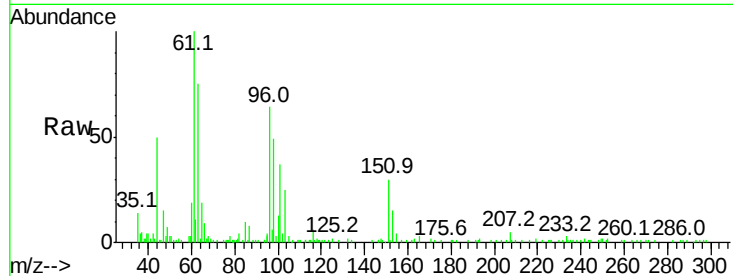
Delta R.T. 0.01 min

Lab File: VR025537.D

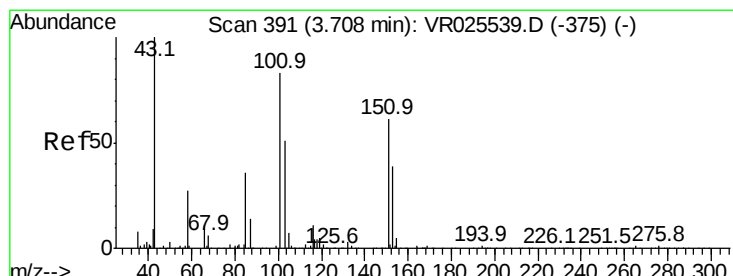
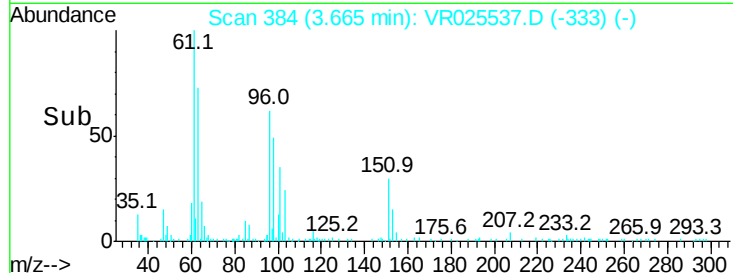
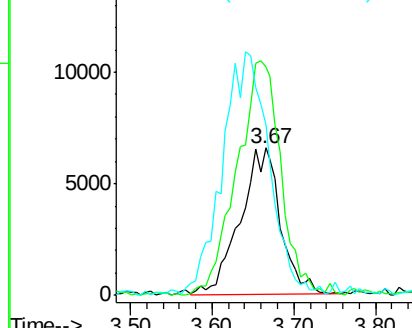
Acq: 30 Jul 2018 11:56

Instrument :
MSVOA_R
ClientSampleId :
VSTD0.581

Tgt Ion:	96	Resp:	22708
Ion	Ratio	Lower	Upper
96	100		
61	155.1	124.3	230.8
63	116.4	108.1	200.7



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: 5.555 ug/L

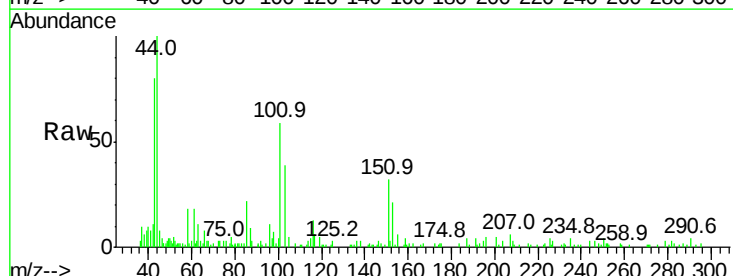
RT: 3.71 min Scan# 392

Delta R.T. 0.01 min

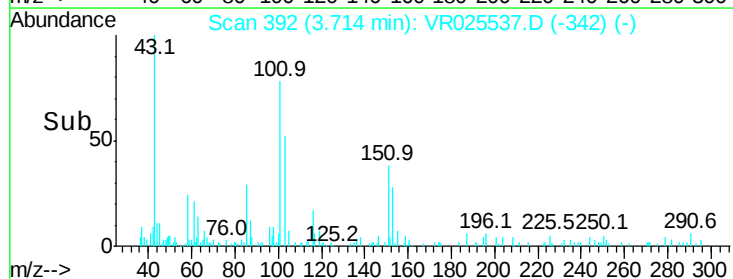
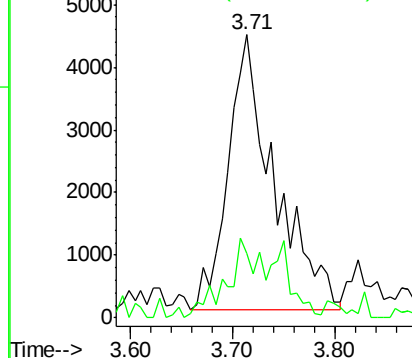
Lab File: VR025537.D

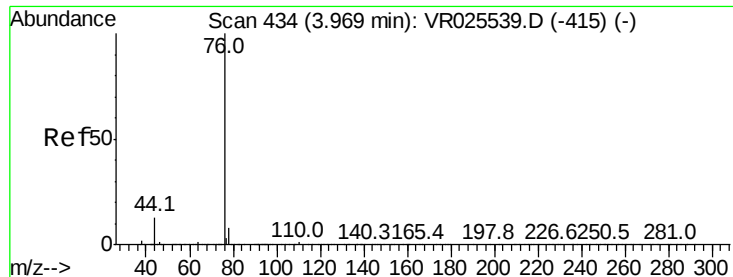
Acq: 30 Jul 2018 11:56

Tgt Ion:	43	Resp:	13706
Ion	Ratio	Lower	Upper
43	100		
58	20.0	0.0	53.4



Abundance Ion 43.05 (42.75 to 43.75): VR0
Ion 58.05 (57.75 to 58.75): VR0





#14

Carbon disulfide

Concen: 0.987 ug/L

RT: 3.97 min Scan# 434

Delta R.T. 0.00 min

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ClientSampleId :

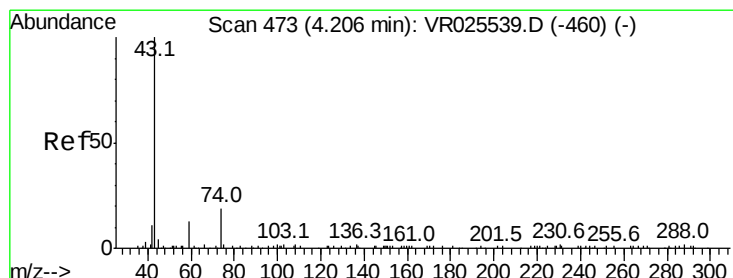
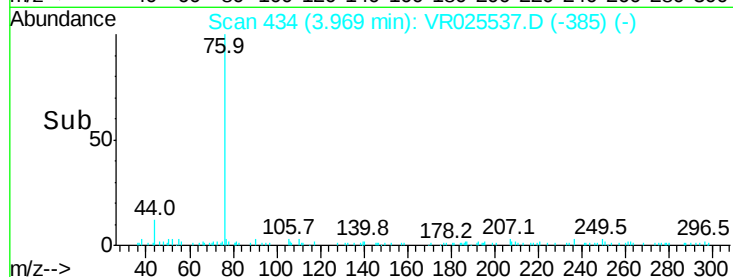
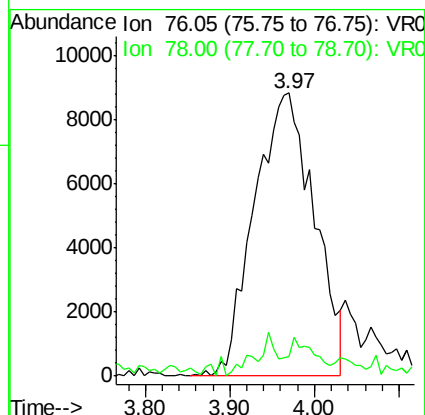
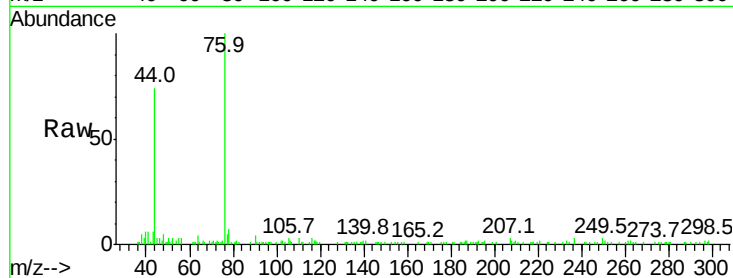
VSTD0.581

Tgt Ion: 76 Resp: 42940

Ion Ratio Lower Upper

76 100

78 7.0 6.8 10.2



#15

Methyl Acetate

Concen: 0.947 ug/L

RT: 4.19 min Scan# 470

Delta R.T. -0.02 min

Lab File: VR025537.D

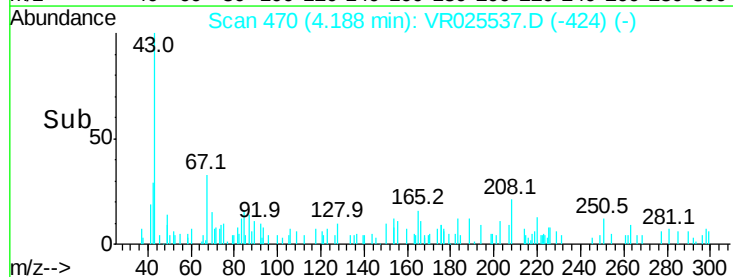
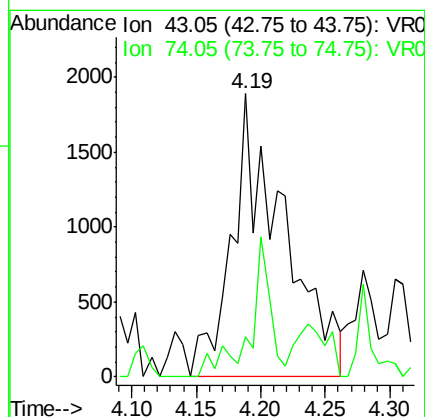
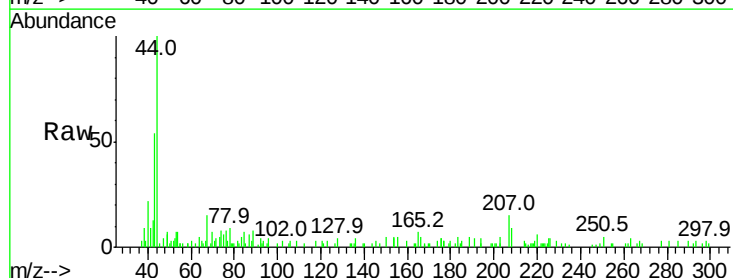
Acq: 30 Jul 2018 11:56

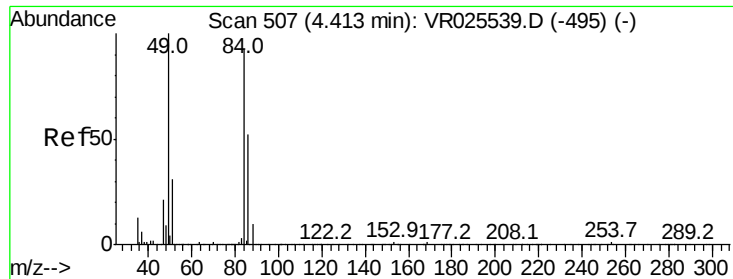
Tgt Ion: 43 Resp: 5230

Ion Ratio Lower Upper

43 100

74 19.3 19.8 29.6#

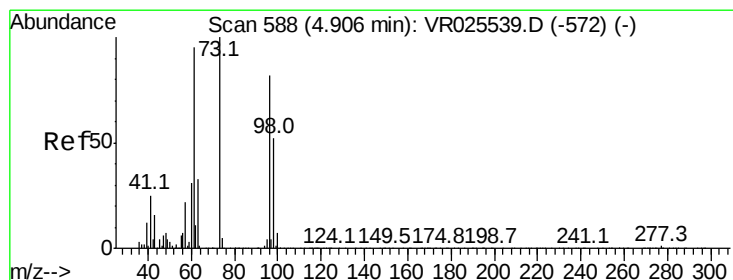
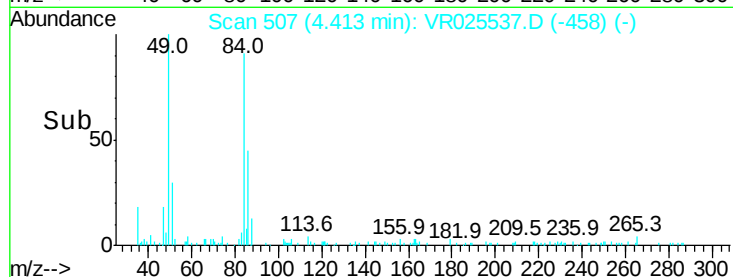
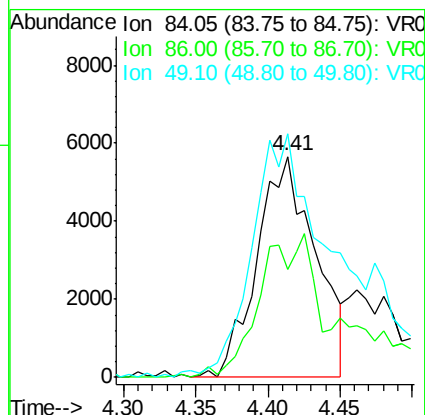
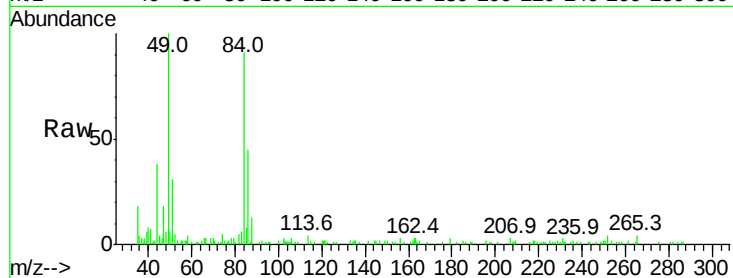




#16
Methylene chloride
Concen: 0.851 ug/L
RT: 4.41 min Scan# 507
Delta R.T. 0.00 min
Lab File: VR025537.D
Acq: 30 Jul 2018 11:56

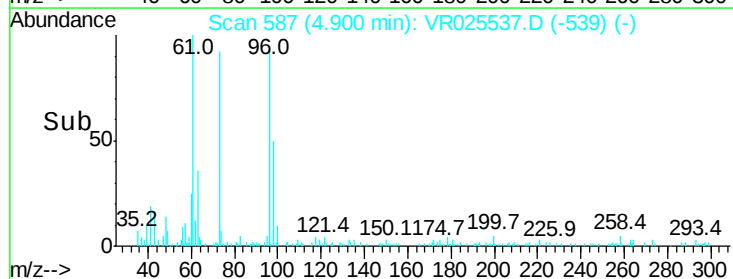
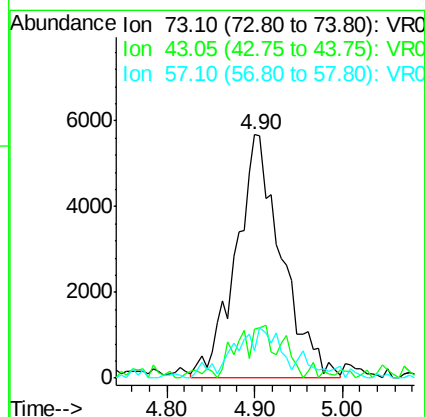
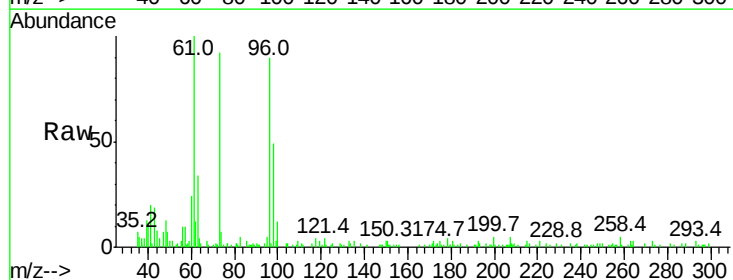
Instrument :
MSVOA_R
ClientSampleId :
VSTD0.581

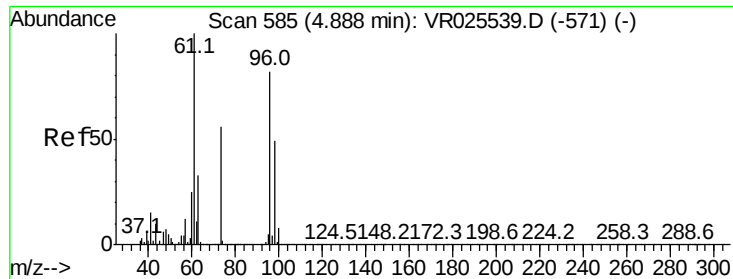
Tgt Ion: 84 Resp: 15944
Ion Ratio Lower Upper
84 100
86 49.2 40.4 75.0
49 110.3 76.2 141.4



#17
Methyl tert-butyl Ether
Concen: 0.331 ug/L
RT: 4.90 min Scan# 587
Delta R.T. -0.01 min
Lab File: VR025537.D
Acq: 30 Jul 2018 11:56

Tgt Ion: 73 Resp: 20616
Ion Ratio Lower Upper
73 100
43 8.4 14.2 21.4#
57 8.0 17.6 26.4#





#18

trans-1,2-Dichloroethene

Concen: 0.440 ug/L

RT: 4.89 min Scan# 586

Delta R.T. 0.01 min

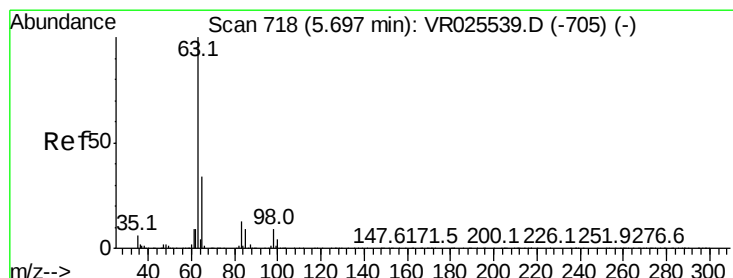
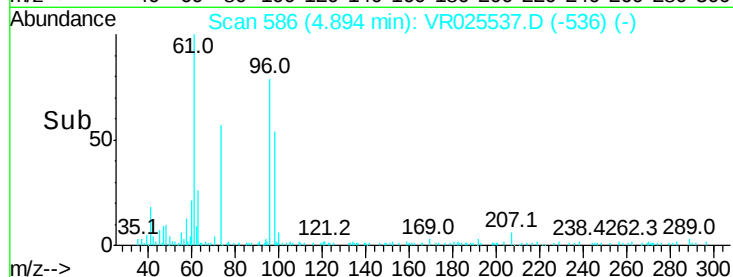
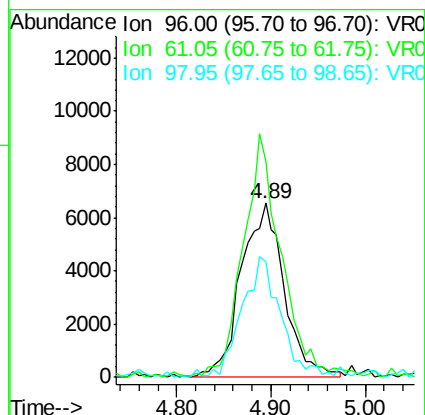
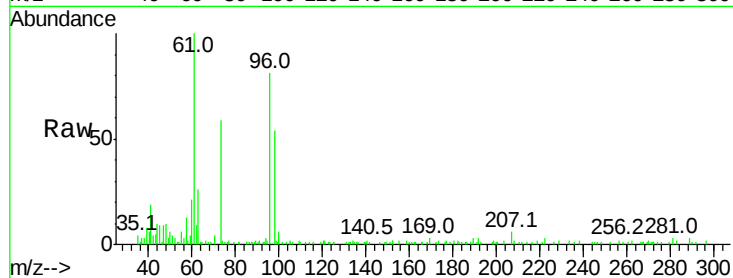
Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Instrument :
MSVOA_R
ClientSampleId :
VSTD0.581

Tgt Ion: 96 Resp: 20908

Ion	Ratio	Lower	Upper
96	100		
61	123.9	85.5	158.9
98	66.6	42.1	78.1



#19

1,1-Dichloroethane

Concen: 0.370 ug/L

RT: 5.70 min Scan# 719

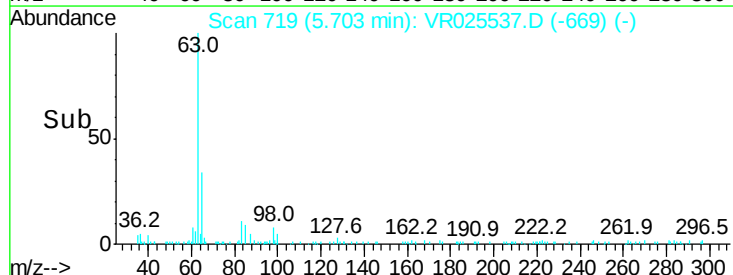
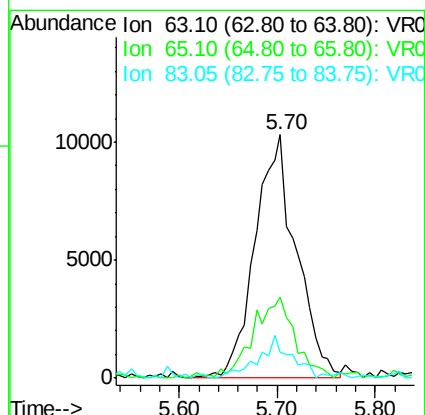
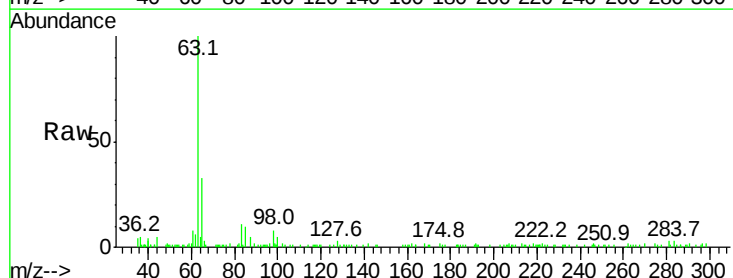
Delta R.T. 0.01 min

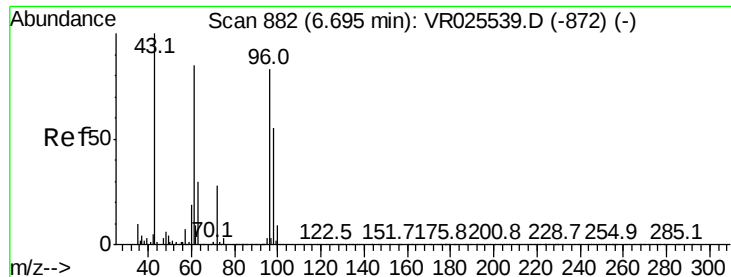
Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Tgt Ion: 63 Resp: 30219

Ion	Ratio	Lower	Upper
63	100		
65	33.4	23.5	43.7
83	10.8	9.1	16.9





#21

2-Butanone

Concen: 2.827 ug/L

RT: 6.70 min Scan# 883

Delta R.T. 0.01 min

Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Instrument :

MSVOA_R

ClientSampleId :

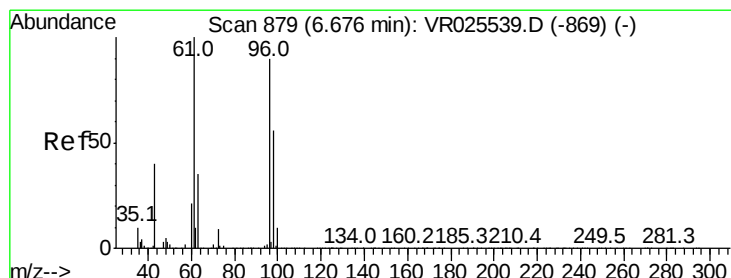
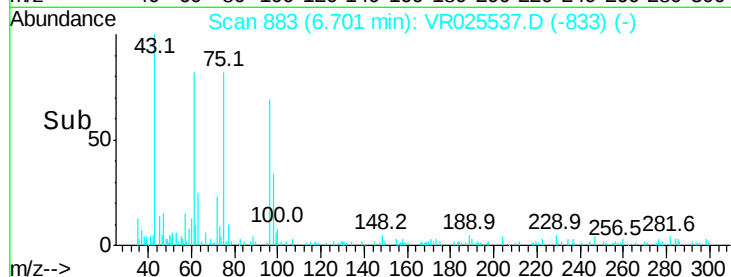
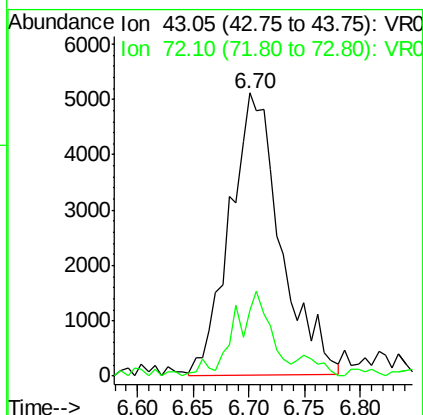
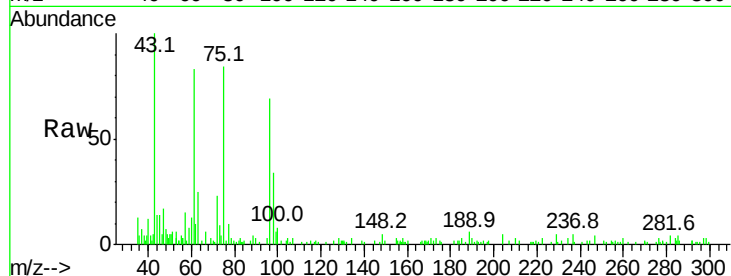
VSTD0.581

Tgt Ion: 43 Resp: 16247

Ion Ratio Lower Upper

43 100

72 19.7 13.2 39.6



#22

cis-1,2-Dichloroethene

Concen: 0.393 ug/L

RT: 6.68 min Scan# 879

Delta R.T. 0.00 min

Lab File: VR025537.D

Acq: 30 Jul 2018 11:56

Tgt Ion: 96 Resp: 17136

Ion Ratio Lower Upper

96 100

61 120.1 77.7 144.3

68 0.0 0.0 0.0

