

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122818\
 Data File : VX006851.D
 Acq On : 28 Dec 2018 10:47
 Operator : JC/MD
 Sample : VX1228WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1228WBS01

Quant Time: Dec 28 22:56:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	563653	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	832980	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	744984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	375856	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	288152	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
35) Dibromofluoromethane	5.51	113	258051	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
50) Toluene-d8	8.71	98	949964	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
62) 4-Bromofluorobenzene	11.13	95	337833	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	82837	16.065	ug/l	98
3) Chloromethane	1.33	50	90557	16.301	ug/l	99
4) Vinyl Chloride	1.41	62	102196	17.614	ug/l	100
5) Bromomethane	1.64	94	98488	16.922	ug/l	95
6) Chloroethane	1.72	64	69321	17.255	ug/l	95
7) Trichlorofluoromethane	1.93	101	165128	18.255	ug/l	93
8) Diethyl Ether	2.20	74	65269	18.166	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	95579	17.996	ug/l	98
10) Methyl Iodide	2.51	142	128268	16.871	ug/l	100
11) Tert butyl alcohol	3.07	59	128452	94.747	ug/l	99
12) 1,1-Dichloroethene	2.37	96	88289	17.531	ug/l	97
13) Acrolein	2.30	56	81661	89.287	ug/l	98
14) Allyl chloride	2.73	41	155826	18.382	ug/l	99
15) Acrylonitrile	3.15	53	296924	98.641	ug/l	100
16) Acetone	2.45	43	260497	93.336	ug/l	98
17) Carbon Disulfide	2.57	76	185973	13.954	ug/l	99
18) Methyl Acetate	2.78	43	176242	21.475	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	334396	20.006	ug/l	99
20) Methylene Chloride	2.86	84	106931	18.528	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	96966	17.377	ug/l	97
22) Diisopropyl ether	3.87	45	308280	19.879	ug/l	97
23) Vinyl Acetate	3.82	43	1211335	95.493	ug/l	99
24) 1,1-Dichloroethane	3.70	63	170126	18.377	ug/l	97
25) 2-Butanone	4.70	43	372876	94.980	ug/l	99
26) 2,2-Dichloropropane	4.58	77	123169	17.224	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	114018	18.520	ug/l	99
28) Bromochloromethane	5.02	49	80352	19.458	ug/l	96
29) Tetrahydrofuran	5.15	42	247076	95.556	ug/l	97
30) Chloroform	5.21	83	178976	18.669	ug/l	96
31) Cyclohexane	5.57	56	137929	16.400	ug/l	95
32) 1,1,1-Trichloroethane	5.49	97	146741	18.128	ug/l	98
36) 1,1-Dichloropropene	5.80	75	124231	18.007	ug/l	98
37) Ethyl Acetate	4.86	43	137891	19.203	ug/l	99
38) Carbon Tetrachloride	5.78	117	121205	18.078	ug/l	97

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 Data File : VX006851.D
 Acq On : 28 Dec 2018 10:47
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 Sample : VX1228WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VX1228WBS01

Quant Time: Dec 28 22:56:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	143333	15.781	ug/l	100
40) Benzene	6.14	78	400214	19.084	ug/l	98
41) Methacrylonitrile	5.06	41	79484	20.849	ug/l	98
42) 1,2-Dichloroethane	6.20	62	135764	18.999	ug/l	100
43) Isopropyl Acetate	6.46	43	226144	20.699	ug/l	98
44) Trichloroethene	7.21	130	113468	17.877	ug/l	95
45) 1,2-Dichloropropane	7.51	63	99953	19.586	ug/l	99
46) Dibromomethane	7.66	93	70427	18.762	ug/l	97
47) Bromodichloromethane	7.90	83	117683	18.884	ug/l	95
48) Methyl methacrylate	7.77	41	117555	21.158	ug/l	97
49) 1,4-Dioxane	7.75	88	51922	344.135	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	720475	103.641	ug/l	99
52) Toluene	8.78	92	255330	18.846	ug/l	97
53) t-1,3-Dichloropropene	9.04	75	124852	18.680	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	143246	19.533	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	110605	19.945	ug/l	97
56) Ethyl methacrylate	9.18	69	158466	20.218	ug/l	96
57) 1,3-Dichloropropane	9.37	76	174747	19.586	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.31	63	407756	97.871	ug/l	100
59) 2-Hexanone	9.49	43	544550	102.382	ug/l	99
60) Dibromochloromethane	9.59	129	99167	18.628	ug/l	97
61) 1,2-Dibromoethane	9.67	107	114345	19.397	ug/l	98
64) Tetrachloroethene	9.34	164	112424	19.058	ug/l	97
65) Chlorobenzene	10.14	112	295227	18.732	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	100615	20.461	ug/l	99
67) Ethyl Benzene	10.25	91	481608	18.700	ug/l	100
68) m/p-Xylenes	10.36	106	380379	37.430	ug/l	100
69) o-Xylene	10.70	106	188932	18.827	ug/l	99
70) Styrene	10.71	104	302081	19.027	ug/l	99
71) Bromoform	10.86	173	70789	18.996	ug/l	97
73) Isopropylbenzene	11.02	105	492794	19.165	ug/l	99
74) N-amyl acetate	10.90	43	196738	21.376	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	157116	20.546	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	169869	24.319	ug/l	94
77) Bromobenzene	11.26	156	135080	19.431	ug/l	98
78) n-propylbenzene	11.36	91	542609	19.163	ug/l	99
79) 2-Chlorotoluene	11.42	91	319944	18.646	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	399892	18.882	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	34031	17.804	ug/l	86
82) 4-Chlorotoluene	11.51	91	371066	18.852	ug/l	100
83) tert-Butylbenzene	11.77	119	388516	18.329	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	413932	18.581	ug/l	99
85) sec-Butylbenzene	11.94	105	465871	17.926	ug/l	100
86) p-Isopropyltoluene	12.06	119	415219	18.176	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	237362	18.946	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	235569	18.341	ug/l	98
89) n-Butylbenzene	12.39	91	340474	17.512	ug/l	99
90) Hexachloroethane	12.60	117	55550	17.807	ug/l	98
91) 1,2-Dichlorobenzene	12.39	146	235608	18.799	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	29073	18.374	ug/l	98

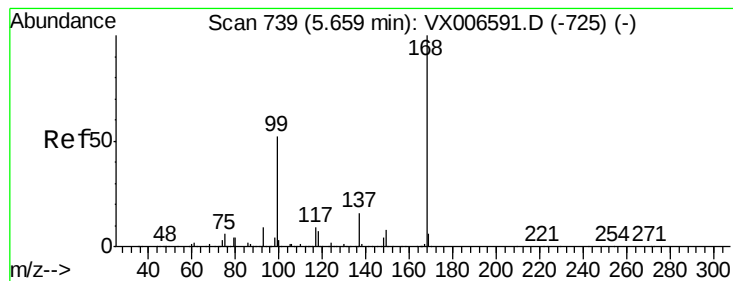
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122818\
Data File : VX006851.D
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Quant Time: Dec 28 22:56:30 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	151498	17.524	ug/l	99
94) Hexachlorobutadiene	13.78	225	60512	14.850	ug/l	99
95) Naphthalene	13.83	128	475785	17.243	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	149230	16.719	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Instrument :

MSVOA_X

ClientSampleId :

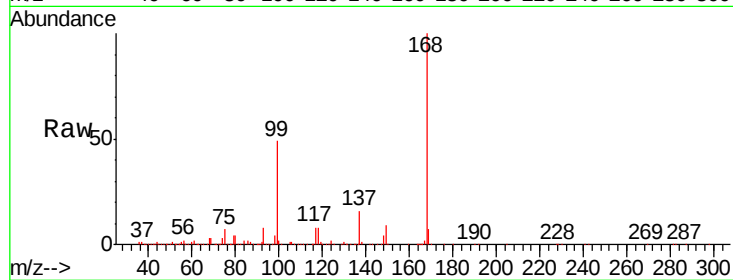
VX1228WBS01

Tgt Ion:168 Resp: 563653

Ion Ratio Lower Upper

168 100

99 48.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

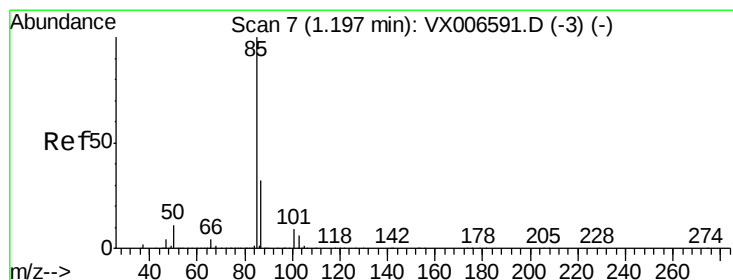
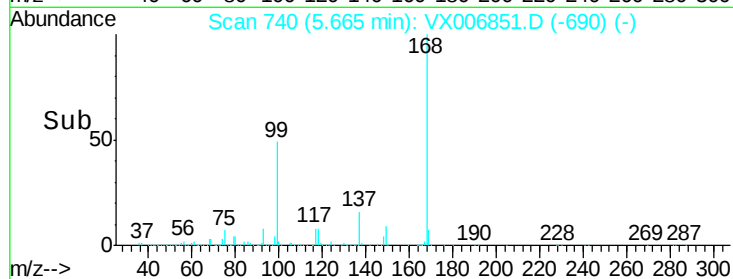
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 16.065 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX006851.D

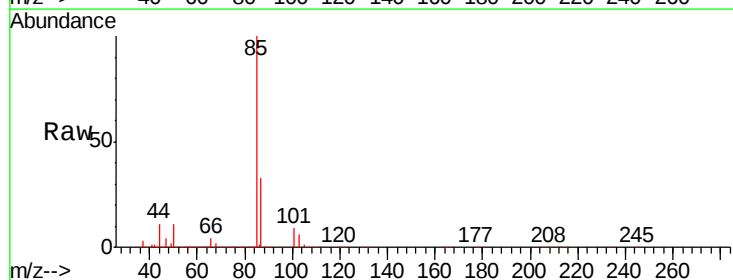
Acq: 28 Dec 2018 10:47

Tgt Ion: 85 Resp: 82837

Ion Ratio Lower Upper

85 100

87 32.8 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

80000

60000

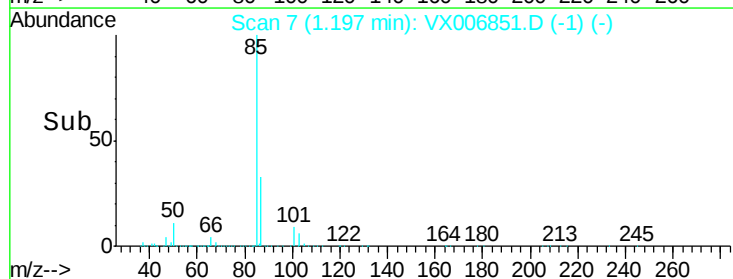
40000

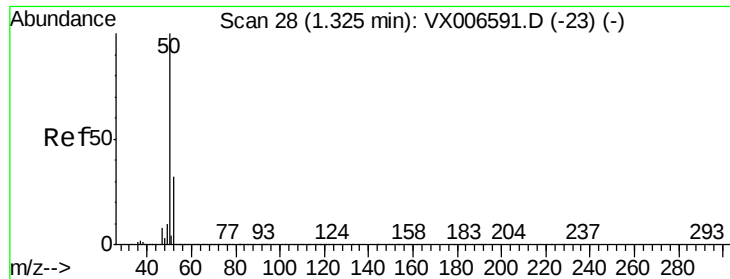
20000

0

1.15 1.20 1.25 1.30

Time-->





#3

Chloromethane

Concen: 16.301 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Instrument :

MSVOA_X

ClientSampleId :

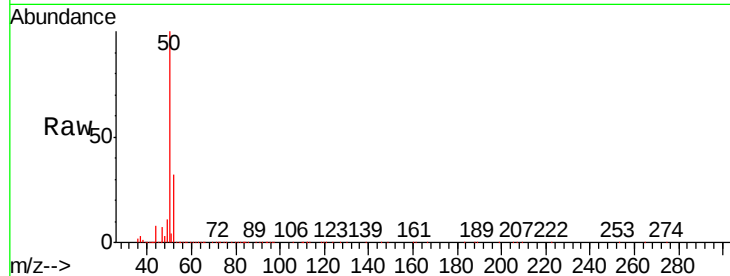
VX1228WBS01

Tgt Ion: 50 Resp: 90557

Ion Ratio Lower Upper

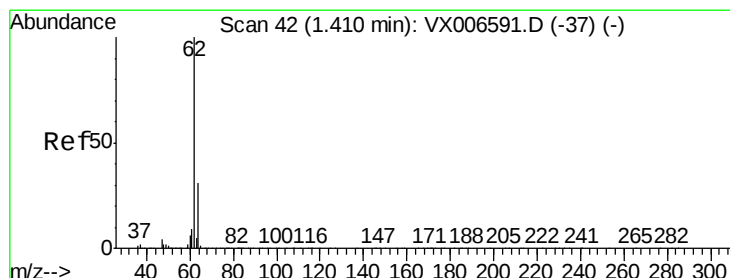
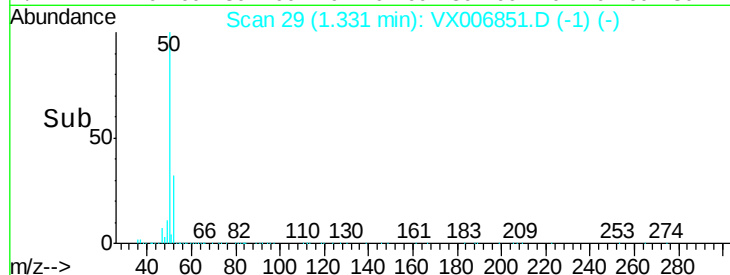
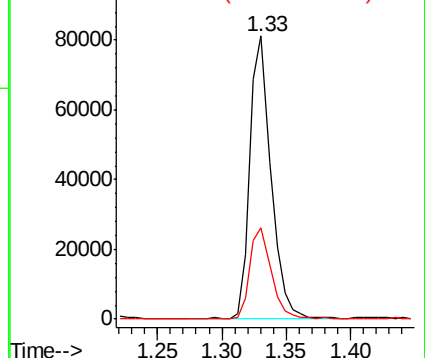
50 100

52 32.2 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 17.614 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006851.D

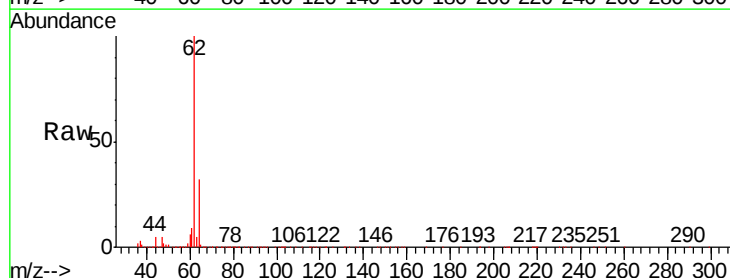
Acq: 28 Dec 2018 10:47

Tgt Ion: 62 Resp: 102196

Ion Ratio Lower Upper

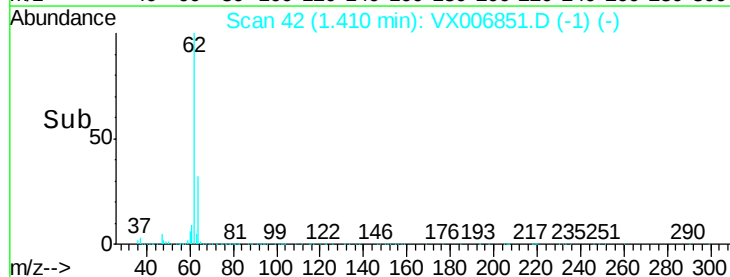
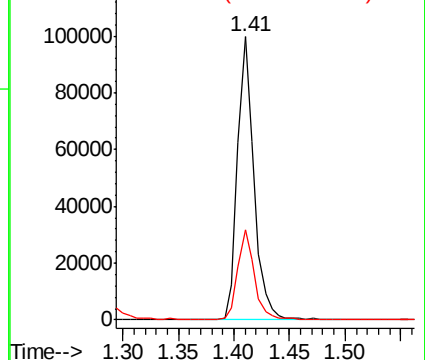
62 100

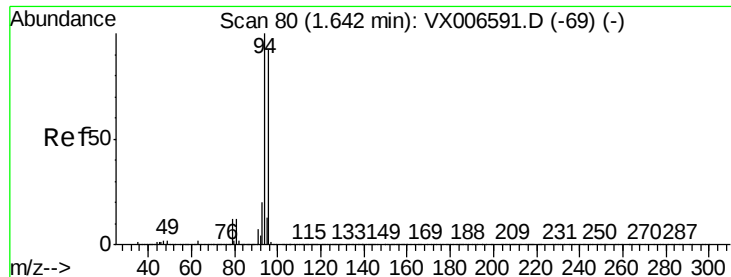
64 31.5 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 16.922 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Instrument :

MSVOA_X

ClientSampled :

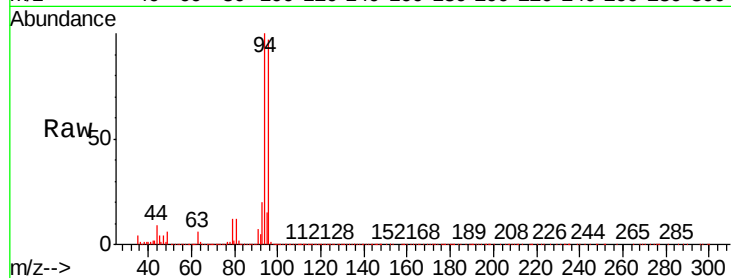
VX1228WBS01

Tgt Ion: 94 Resp: 98488

Ion Ratio Lower Upper

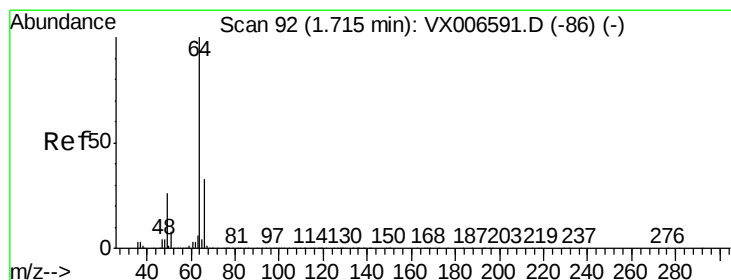
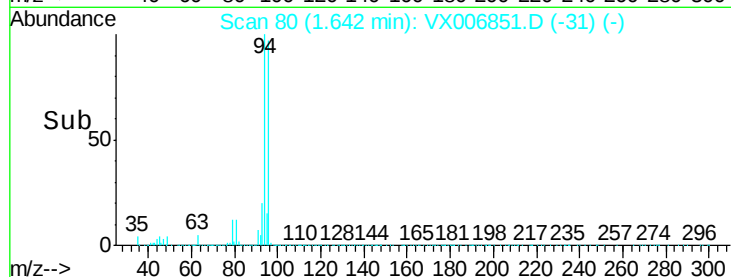
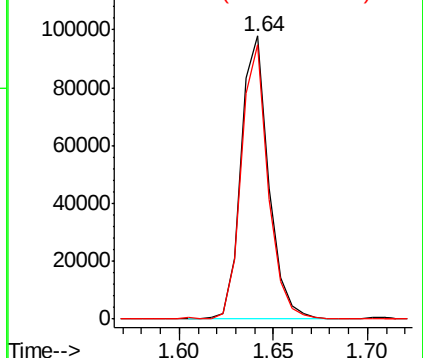
94 100

96 96.9 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 17.255 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX006851.D

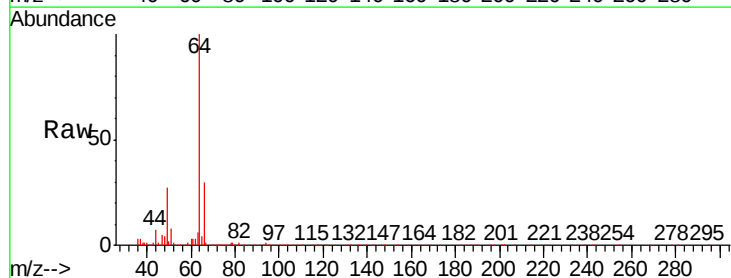
Acq: 28 Dec 2018 10:47

Tgt Ion: 64 Resp: 69321

Ion Ratio Lower Upper

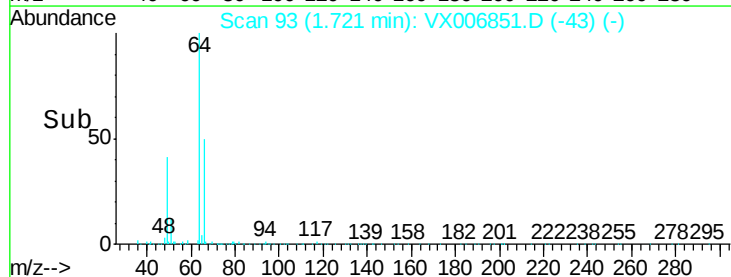
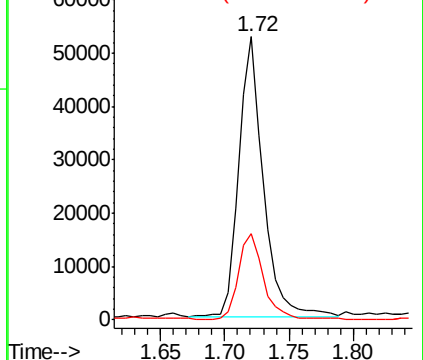
64 100

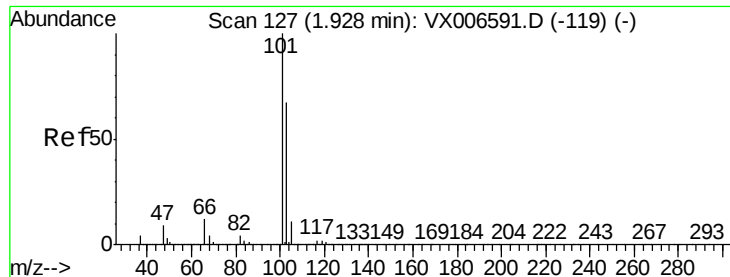
66 30.1 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



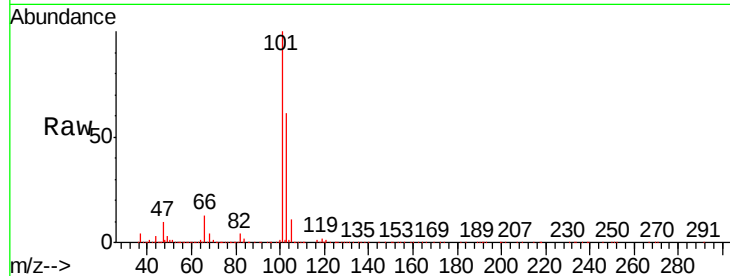


#7

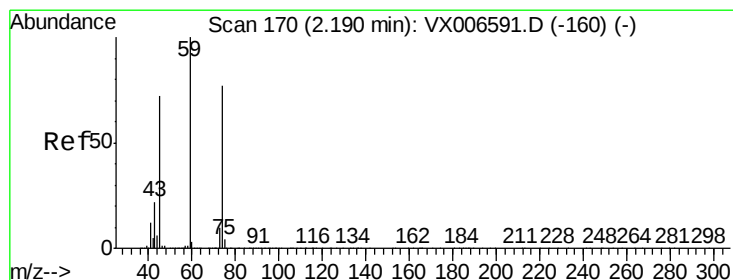
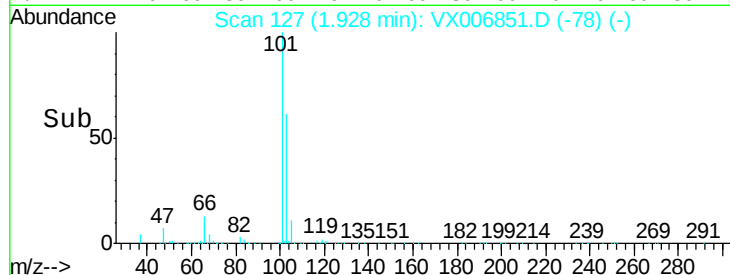
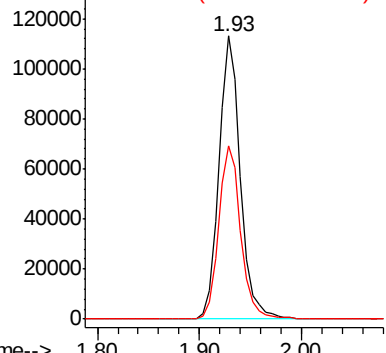
Trichlorofluoromethane
Concen: 18.255 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.00 min
Lab File: VX006851.D
Acq: 28 Dec 2018 10:47

Instrument :
MSVOA_X
ClientSampleId :
VX1228WBS01

Tgt Ion:101 Resp: 165128
Ion Ratio Lower Upper
101 100
103 61.1 53.2 79.8



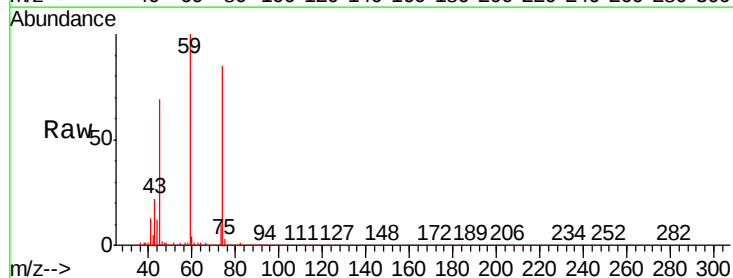
Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



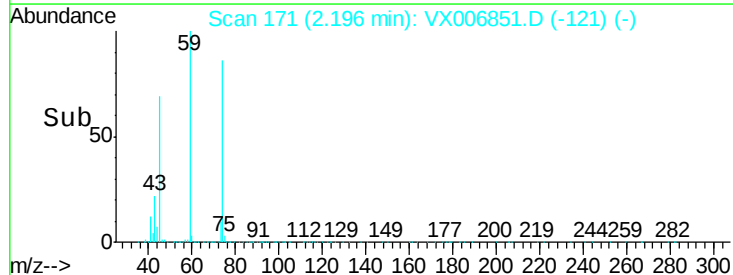
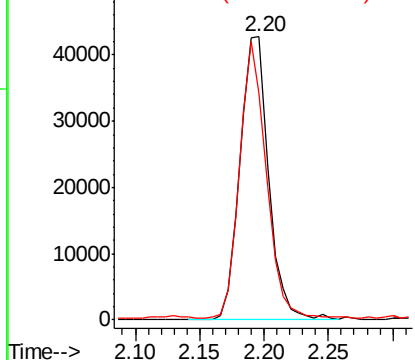
#8

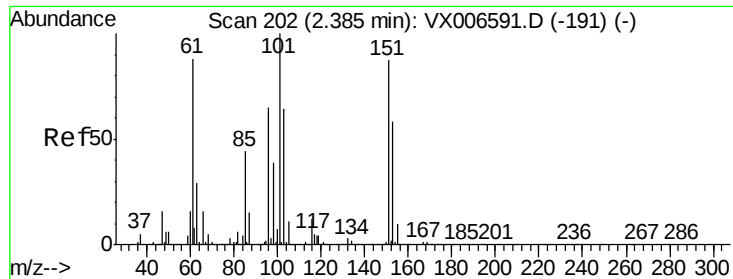
Diethyl Ether
Concen: 18.166 ug/l
RT: 2.20 min Scan# 171
Delta R.T. 0.01 min
Lab File: VX006851.D
Acq: 28 Dec 2018 10:47

Tgt Ion: 74 Resp: 65269
Ion Ratio Lower Upper
74 100
45 91.7 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.996 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Instrument :

MSVOA_X

ClientSampleId :

VX1228WBS01

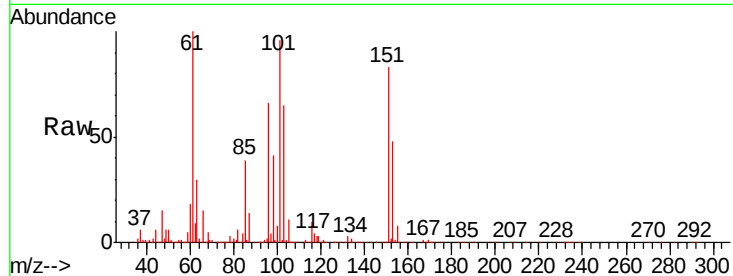
Tgt Ion:101 Resp: 95579

Ion Ratio Lower Upper

101 100

85 44.3 35.1 52.7

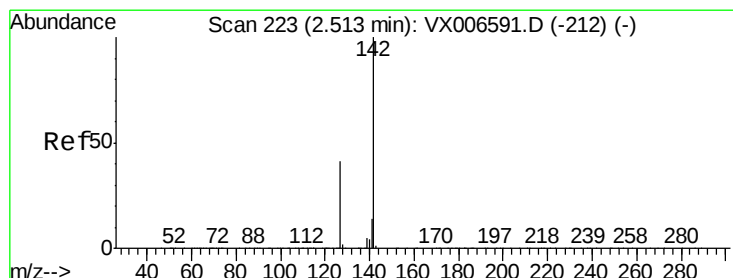
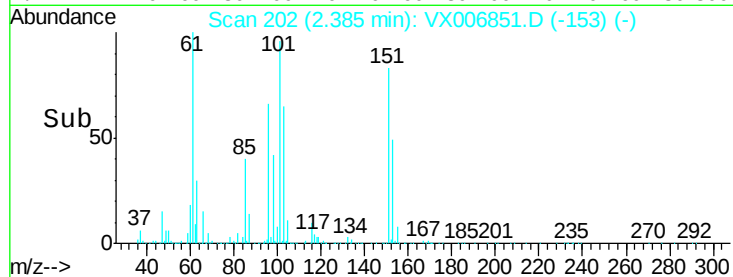
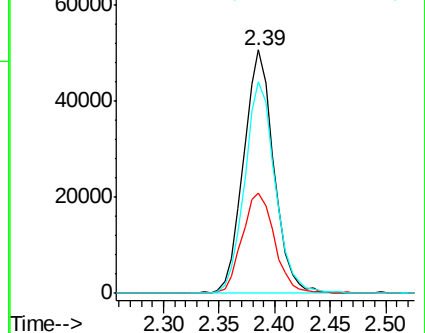
151 88.0 68.9 103.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.871 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.00 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

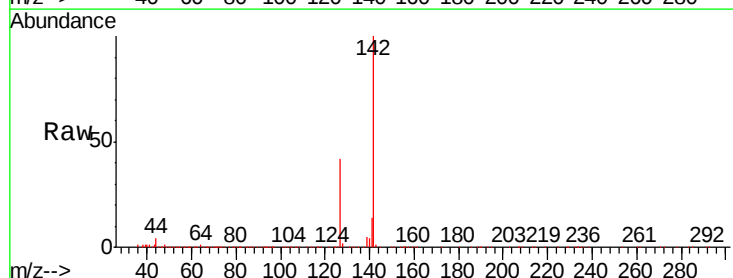
Tgt Ion:142 Resp: 128268

Ion Ratio Lower Upper

142 100

127 42.5 33.9 50.9

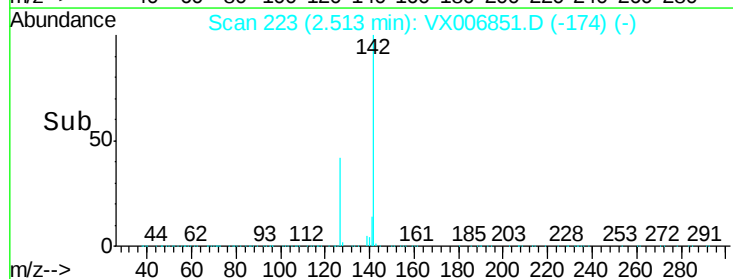
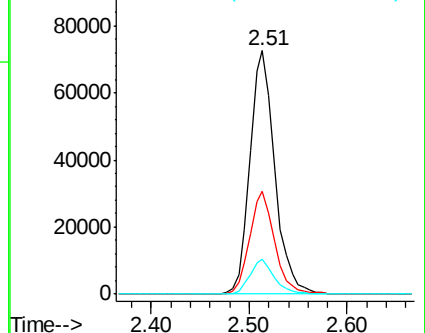
141 14.2 11.4 17.0

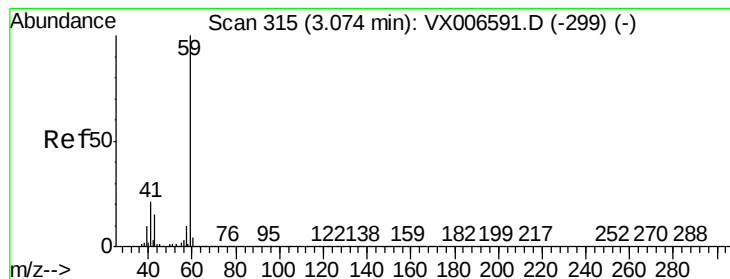


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



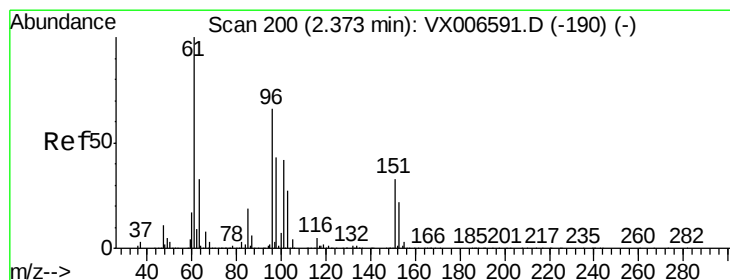
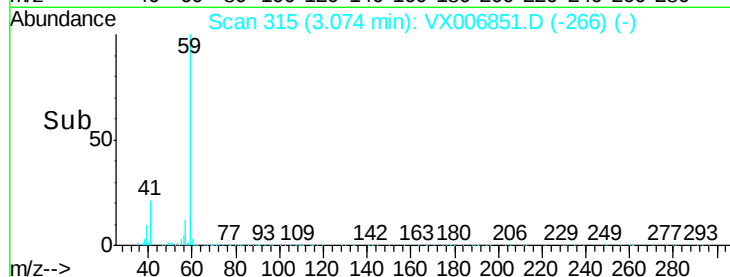
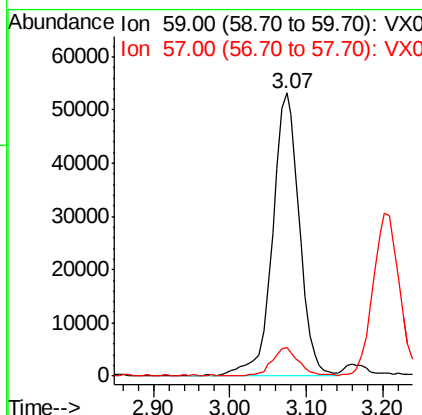
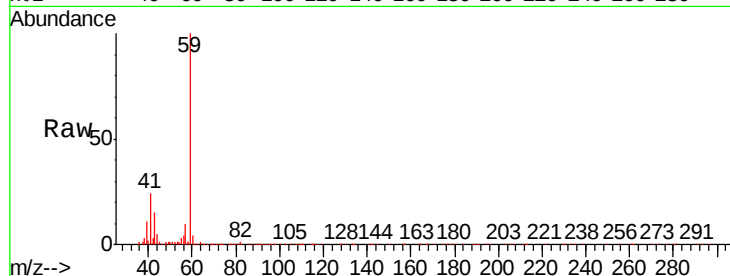


#11

Tert butyl alcohol
 Concen: 94.747 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. 0.00 min
 Lab File: VX006851.D
 Acq: 28 Dec 2018 10:47

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1228WBS01

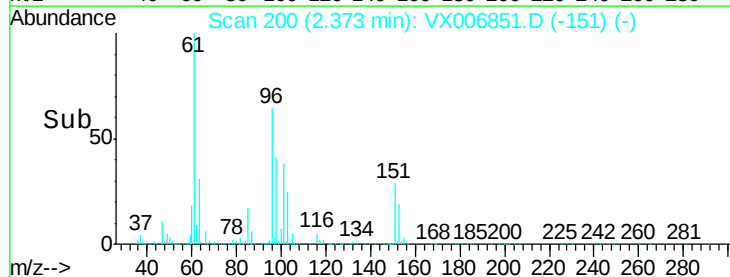
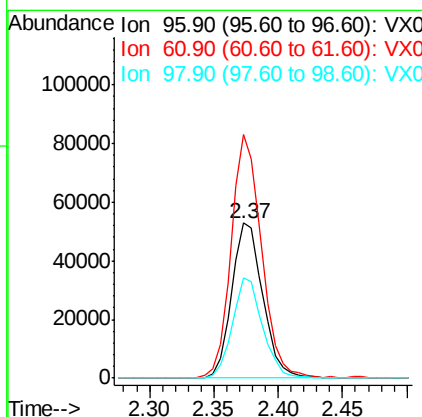
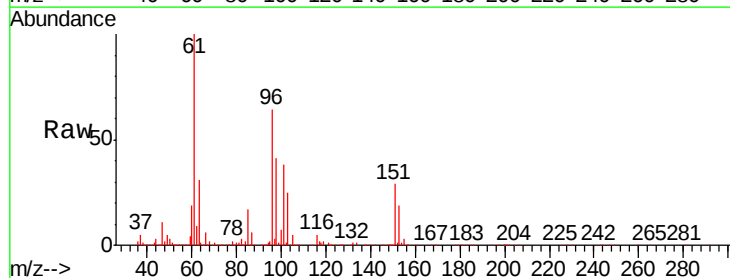
Tgt Ion: 59 Resp: 128452
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.5 12.7

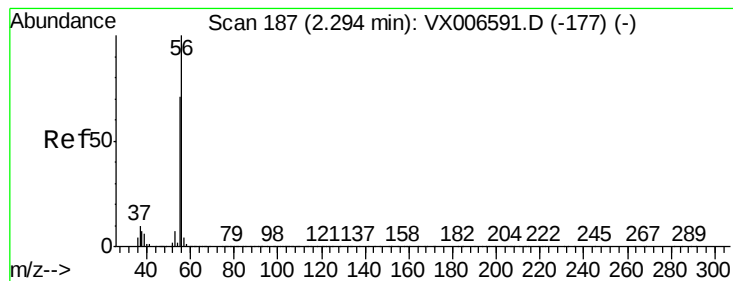


#12

1,1-Dichloroethene
 Concen: 17.531 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX006851.D
 Acq: 28 Dec 2018 10:47

Tgt Ion: 96 Resp: 88289
 Ion Ratio Lower Upper
 96 100
 61 157.1 121.4 182.2
 98 64.6 51.9 77.9





#13

Acrolein

Concen: 89.287 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Instrument :

MSVOA_X

ClientSampleId :

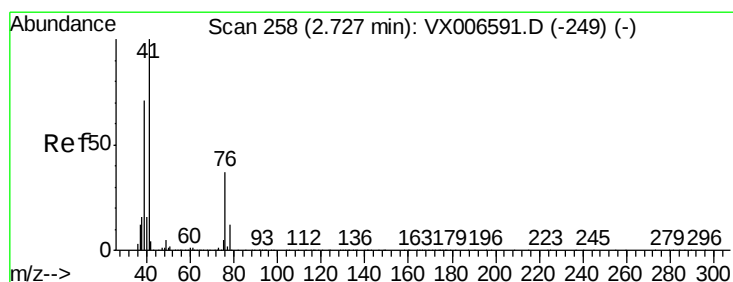
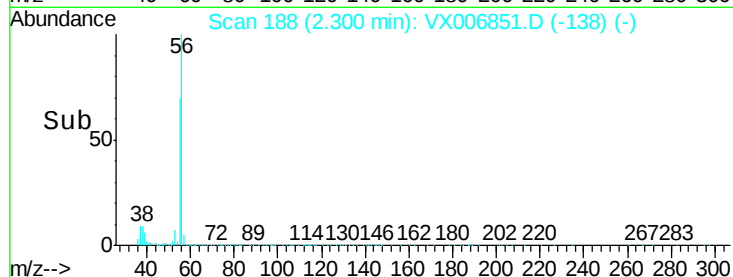
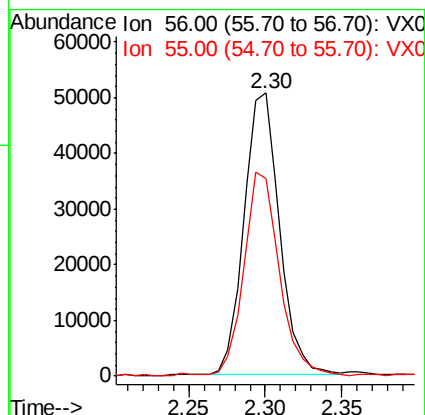
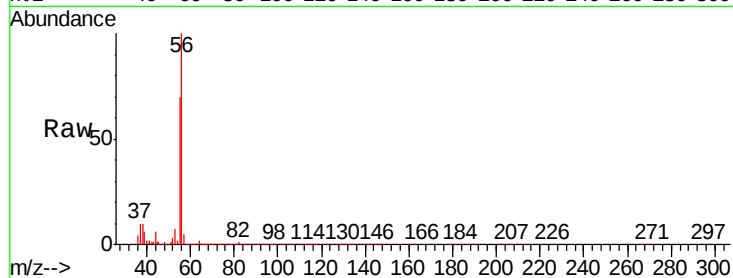
VX1228WBS01

Tgt Ion: 56 Resp: 81661

Ion Ratio Lower Upper

56 100

55 71.4 58.2 87.4



#14

Allyl chloride

Concen: 18.382 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.01 min

Lab File: VX006851.D

Acq: 28 Dec 2018 10:47

Tgt Ion: 41 Resp: 155826

Ion Ratio Lower Upper

41 100

39 66.6 53.6 80.4

76 33.4 27.4 41.2

