

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122818\
 Data File : VX006861.D
 Acq On : 28 Dec 2018 15:13
 Operator : JC/MD
 Sample : VX1228MBS01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1228MBS01

Quant Time: Dec 28 22:59:30 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	544049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	804178	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	728092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	363211	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	294684	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	
35) Dibromofluoromethane	5.50	113	262628	51.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.28%	
50) Toluene-d8	8.71	98	976513	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.13	95	349385	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.20	85	79465	15.966	ug/l 95
3) Chloromethane	1.33	50	89897	16.765	ug/l 98
4) Vinyl Chloride	1.41	62	99461	17.760	ug/l 100
5) Bromomethane	1.64	94	99303	17.766	ug/l 96
6) Chloroethane	1.72	64	66514	17.153	ug/l 98
7) Trichlorofluoromethane	1.93	101	165241	18.925	ug/l 94
8) Diethyl Ether	2.19	74	66432	19.156	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	96988	18.919	ug/l 99
10) Methyl Iodide	2.51	142	127332	17.352	ug/l 100
11) Tert butyl alcohol	3.07	59	137076	104.752	ug/l 97
12) 1,1-Dichloroethene	2.37	96	90211	18.558	ug/l 98
13) Acrolein	2.30	56	82679	93.658	ug/l 99
14) Allyl chloride	2.73	41	152503	18.639	ug/l 98
15) Acrylonitrile	3.15	53	295675	101.766	ug/l 100
16) Acetone	2.45	43	247274	91.791	ug/l 99
17) Carbon Disulfide	2.57	76	186294	14.482	ug/l 98
18) Methyl Acetate	2.78	43	188008	23.734	ug/l 98
19) Methyl tert-butyl Ether	3.20	73	330385	20.478	ug/l 99
20) Methylene Chloride	2.85	84	110256	19.793	ug/l 99
21) trans-1,2-Dichloroethene	3.17	96	95215	17.679	ug/l 98
22) Diisopropyl ether	3.87	45	310173	20.722	ug/l 93
23) Vinyl Acetate	3.82	43	1212023	98.990	ug/l 99
24) 1,1-Dichloroethane	3.70	63	167452	18.740	ug/l 99
25) 2-Butanone	4.70	43	367522	96.990	ug/l 100
26) 2,2-Dichloropropane	4.58	77	113204	16.401	ug/l 99
27) cis-1,2-Dichloroethene	4.60	96	111902	18.831	ug/l 98
28) Bromochloromethane	5.02	49	70578	17.534	ug/l 95
29) Tetrahydrofuran	5.15	42	245473	98.357	ug/l 99
30) Chloroform	5.21	83	178702	19.312	ug/l 97
31) Cyclohexane	5.57	56	137309	16.915	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	143818	18.407	ug/l 98
36) 1,1-Dichloropropene	5.80	75	125006	18.768	ug/l 99
37) Ethyl Acetate	4.85	43	140075	20.206	ug/l 99
38) Carbon Tetrachloride	5.78	117	121337	18.745	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	140812	16.059	ug/l	94
40) Benzene	6.15	78	394581	19.490	ug/l	97
41) Methacrylonitrile	5.06	41	79548	21.613	ug/l	99
42) 1,2-Dichloroethane	6.20	62	137438	19.922	ug/l	99
43) Isopropyl Acetate	6.46	43	224634	21.297	ug/l	99
44) Trichloroethene	7.21	130	113469	18.517	ug/l	99
45) 1,2-Dichloropropane	7.52	63	100253	20.349	ug/l	100
46) Dibromomethane	7.66	93	69371	19.143	ug/l	96
47) Bromodichloromethane	7.90	83	116801	19.414	ug/l	99
48) Methyl methacrylate	7.77	41	115658	21.562	ug/l	98
49) 1,4-Dioxane	7.75	88	57191	395.492	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	726835	108.301	ug/l	100
52) Toluene	8.79	92	254385	19.449	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	121827	18.880	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	141756	20.022	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	111812	20.885	ug/l	98
56) Ethyl methacrylate	9.18	69	160491	21.210	ug/l	98
57) 1,3-Dichloropropane	9.37	76	174051	20.207	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.31	63	391910	97.436	ug/l	100
59) 2-Hexanone	9.49	43	542612	105.671	ug/l	99
60) Dibromochloromethane	9.59	129	96362	18.734	ug/l	100
61) 1,2-Dibromoethane	9.67	107	115339	20.267	ug/l	99
64) Tetrachloroethene	9.34	164	107728	18.685	ug/l	97
65) Chlorobenzene	10.14	112	301016	19.542	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.22	131	101199	21.058	ug/l	99
67) Ethyl Benzene	10.25	91	485560	19.291	ug/l	99
68) m/p-Xylenes	10.36	106	381148	38.375	ug/l	100
69) o-Xylene	10.70	106	185042	18.867	ug/l	95
70) Styrene	10.71	104	298351	19.228	ug/l	98
71) Bromoform	10.86	173	70120	19.193	ug/l #	99
73) Isopropylbenzene	11.02	105	491398	19.776	ug/l	99
74) N-amyl acetate	10.90	43	199603	22.442	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.27	83	160736	21.751	ug/l	100
76) 1,2,3-Trichloropropane	11.29	75	167563	24.824	ug/l	92
77) Bromobenzene	11.26	156	136281	20.287	ug/l	99
78) n-propylbenzene	11.36	91	541763	19.799	ug/l	100
79) 2-Chlorotoluene	11.42	91	327707	19.763	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	400847	19.586	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	34407	18.432	ug/l #	85
82) 4-Chlorotoluene	11.51	91	375177	19.725	ug/l	100
83) tert-Butylbenzene	11.77	119	402685	19.659	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	413061	19.188	ug/l	99
85) sec-Butylbenzene	11.94	105	471164	18.761	ug/l	100
86) p-Isopropyltoluene	12.06	119	419843	19.018	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	235430	19.446	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	237691	19.151	ug/l	99
89) n-Butylbenzene	12.38	91	345464	18.387	ug/l	98
90) Hexachloroethane	12.60	117	55829	18.388	ug/l	98
91) 1,2-Dichlorobenzene	12.39	146	238033	19.654	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	29182	19.085	ug/l	98

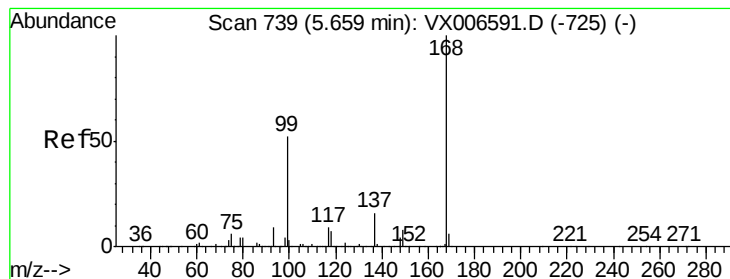
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122818\
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	152110	18.207	ug/l	100
94) Hexachlorobutadiene	13.78	225	64788	16.453	ug/l	98
95) Naphthalene	13.83	128	483326	18.127	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	149239	17.302	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: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

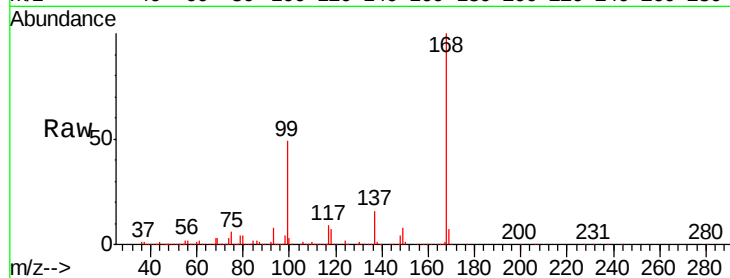
VX1228MBS01

Tgt Ion:168 Resp: 544049

Ion Ratio Lower Upper

168 100

99 49.1 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

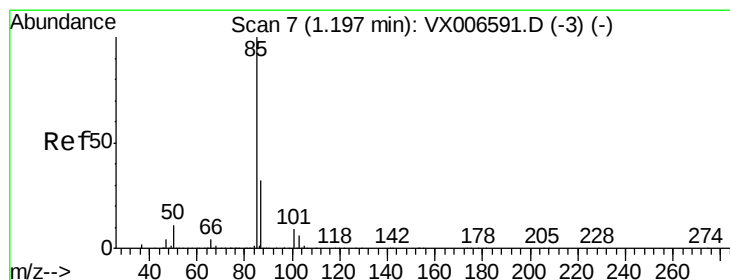
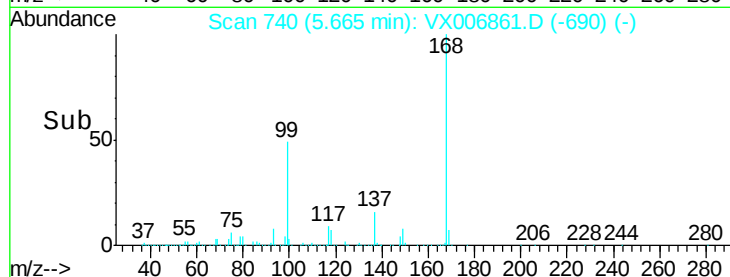
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 15.966 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX006861.D

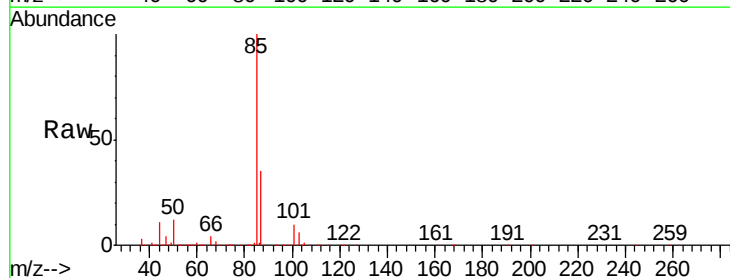
Acq: 28 Dec 2018 15:13

Tgt Ion: 85 Resp: 79465

Ion Ratio Lower Upper

85 100

87 34.6 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80000

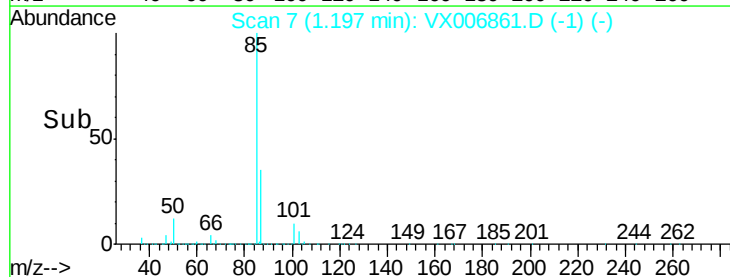
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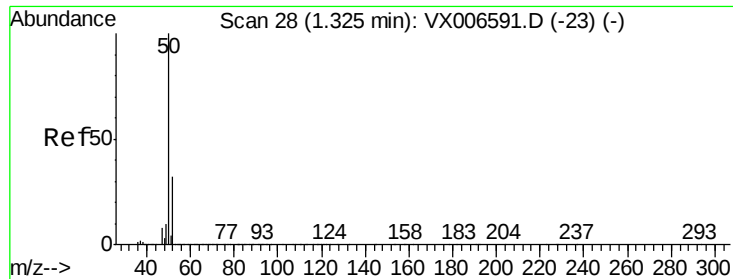
40000

20000

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Time--> 1.15 1.20 1.25 1.30

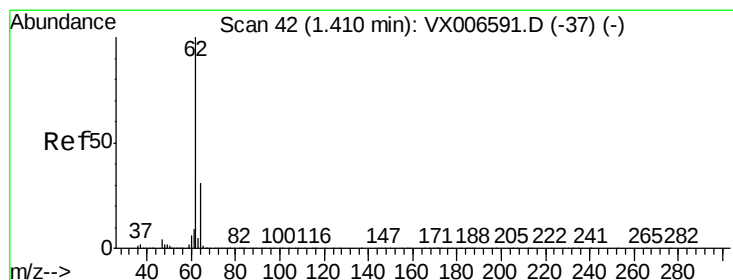
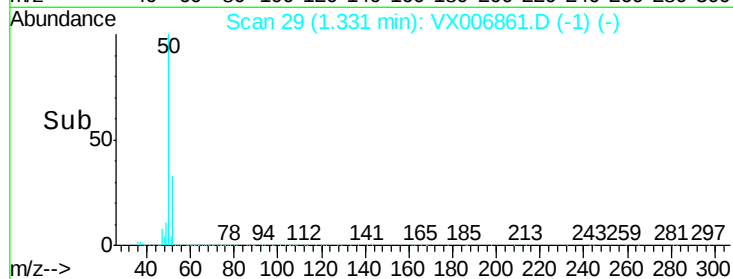
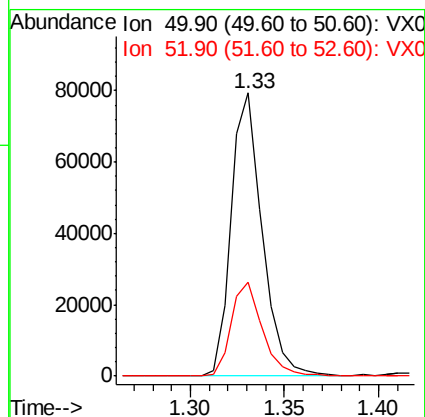
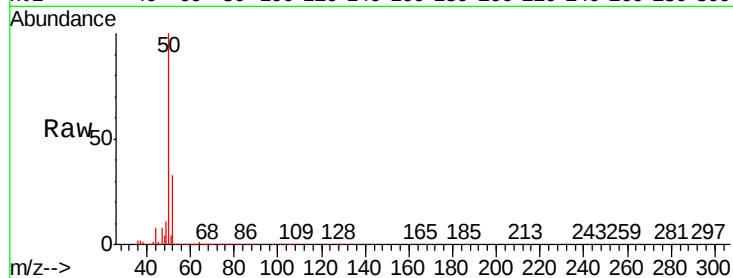




#3
Chloromethane
Concen: 16.765 ug/l
RT: 1.33 min Scan# 29
Delta R.T. 0.01 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

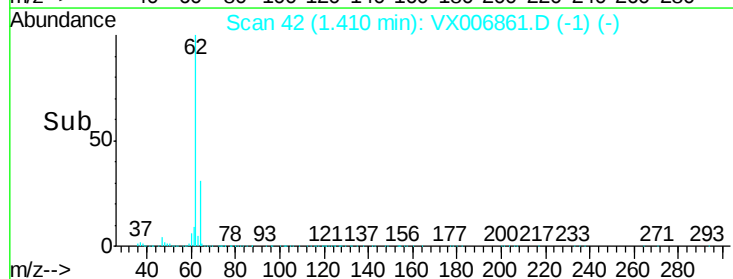
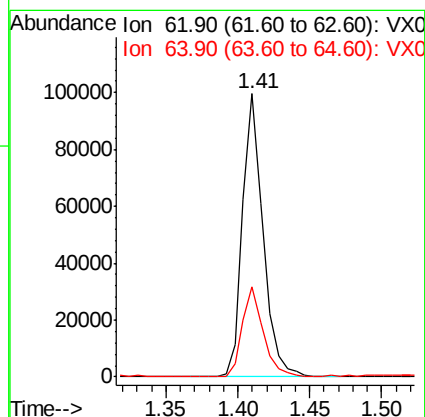
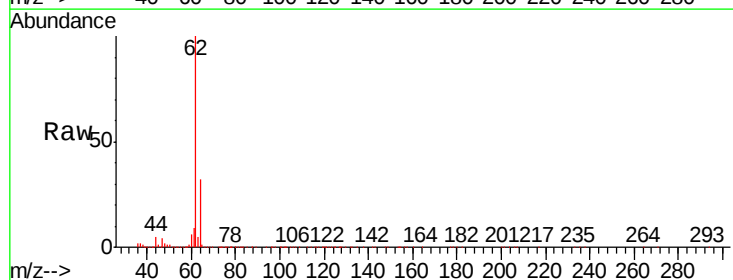
Instrument :
MSVOA_X
ClientSampleId :
VX1228MBS01

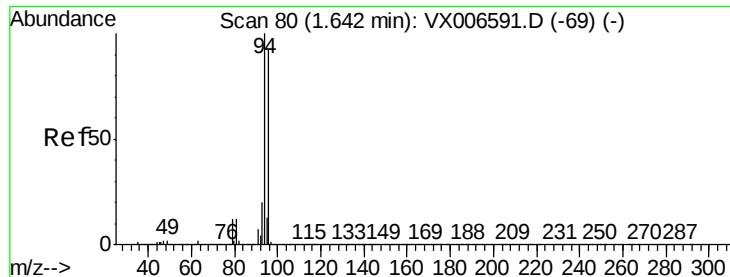
Tgt Ion: 50 Resp: 89897
Ion Ratio Lower Upper
50 100
52 33.1 25.4 38.2



#4
Vinyl Chloride
Concen: 17.760 ug/l
RT: 1.41 min Scan# 42
Delta R.T. 0.00 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

Tgt Ion: 62 Resp: 99461
Ion Ratio Lower Upper
62 100
64 31.5 25.1 37.7





#5

Bromomethane

Concen: 17.766 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

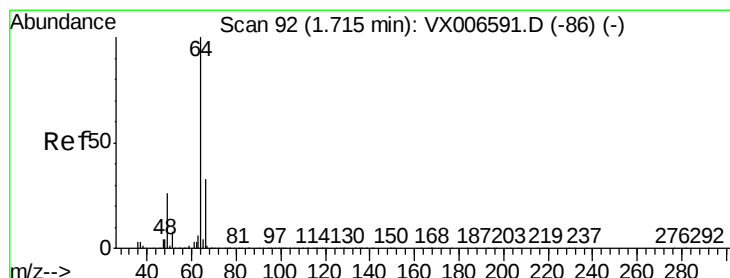
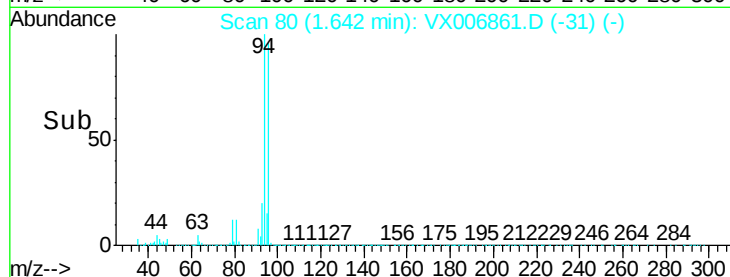
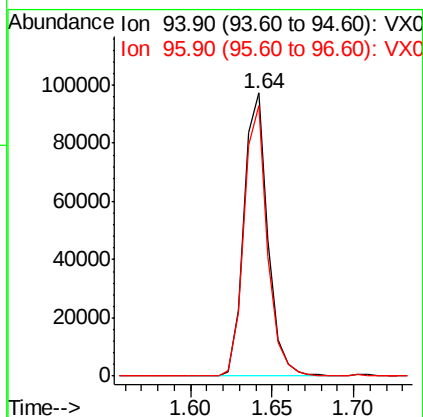
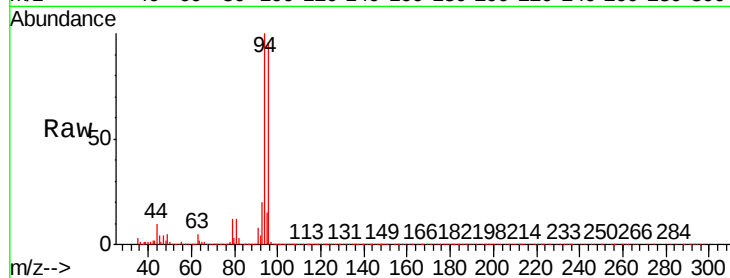
VX1228MBS01

Tgt Ion: 94 Resp: 99303

Ion Ratio Lower Upper

94 100

96 95.5 73.4 110.2



#6

Chloroethane

Concen: 17.153 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX006861.D

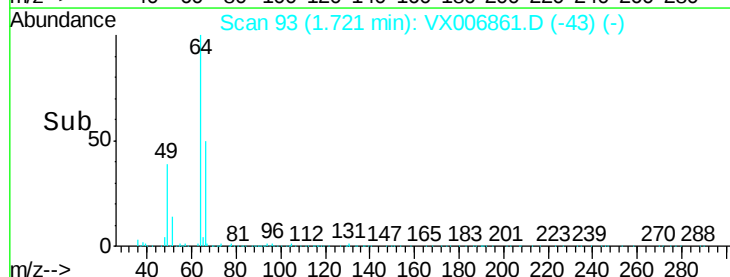
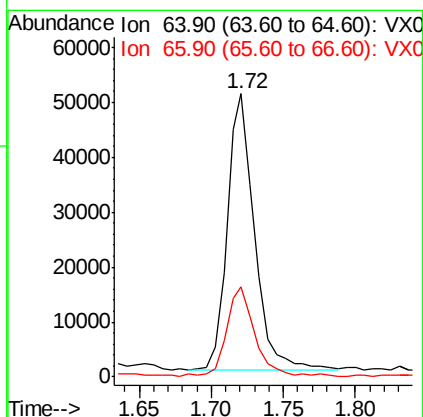
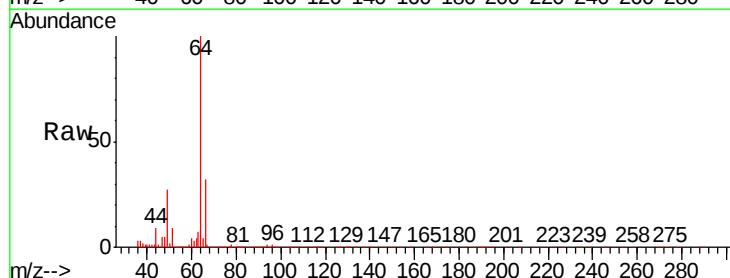
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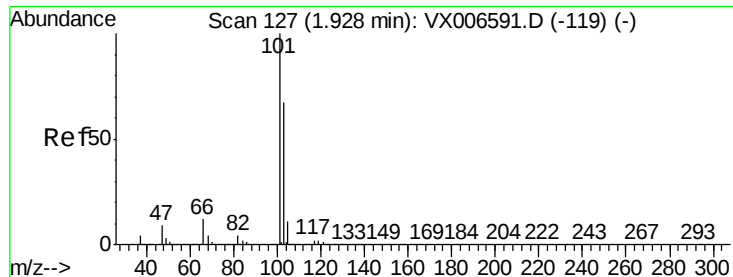
Tgt Ion: 64 Resp: 66514

Ion Ratio Lower Upper

64 100

66 32.1 26.4 39.6



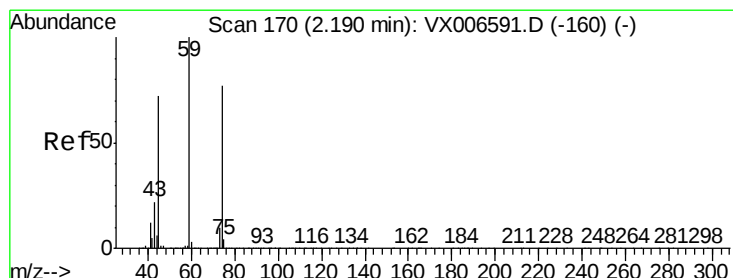
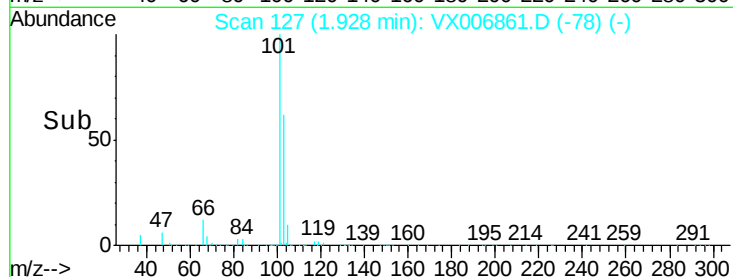
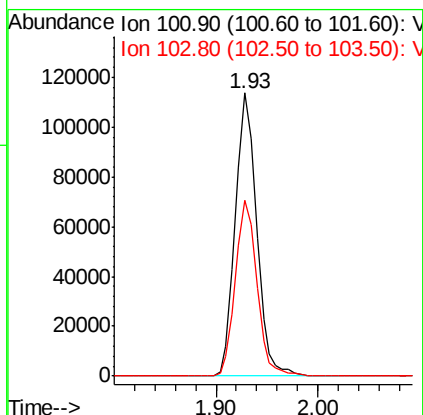
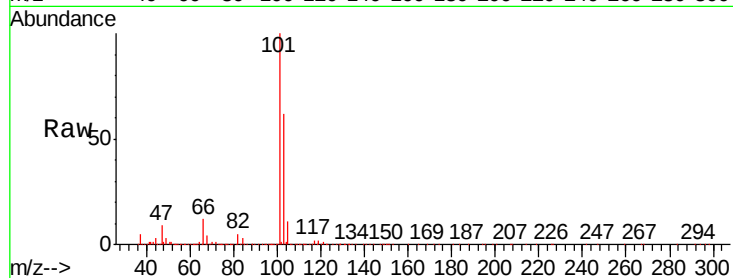


#7

Trichlorofluoromethane
Concen: 18.925 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.00 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

Instrument :
MSVOA_X
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VX1228MBS01

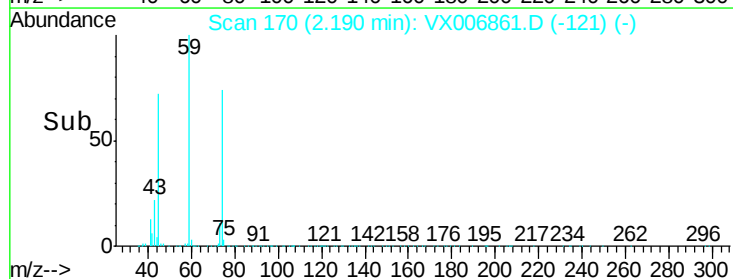
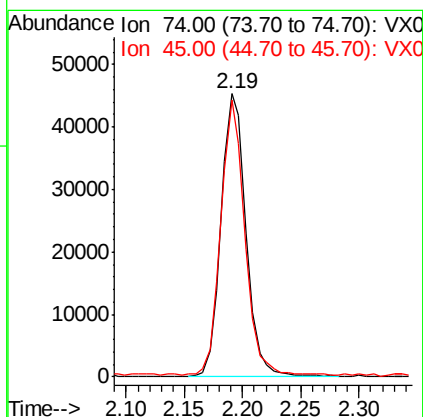
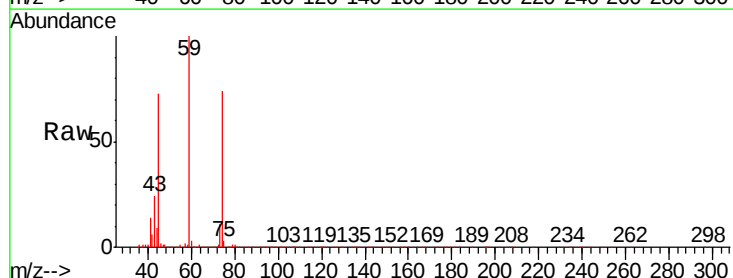
Tgt Ion:101 Resp: 165241
Ion Ratio Lower Upper
101 100
103 62.0 53.2 79.8

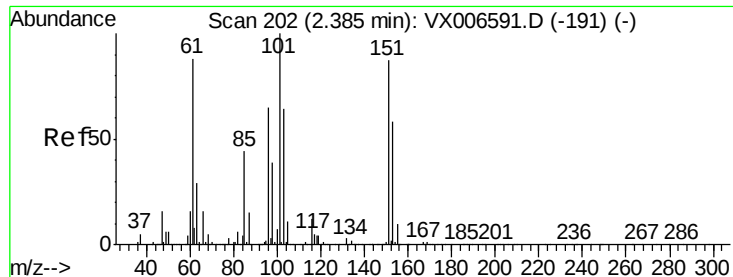


#8

Diethyl Ether
Concen: 19.156 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

Tgt Ion: 74 Resp: 66432
Ion Ratio Lower Upper
74 100
45 93.4 46.3 138.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.919 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

VX1228MBS01

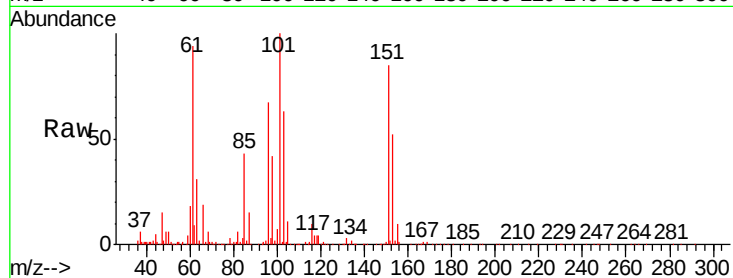
Tgt Ion:101 Resp: 96988

Ion Ratio Lower Upper

101 100

85 44.3 35.1 52.7

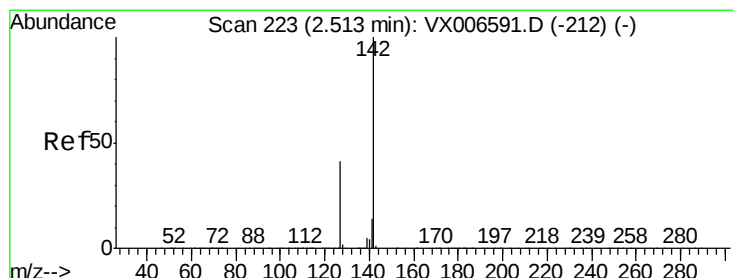
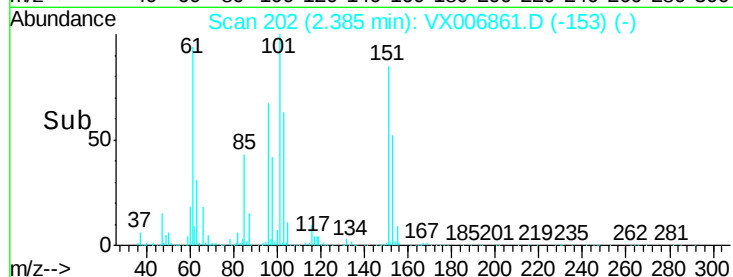
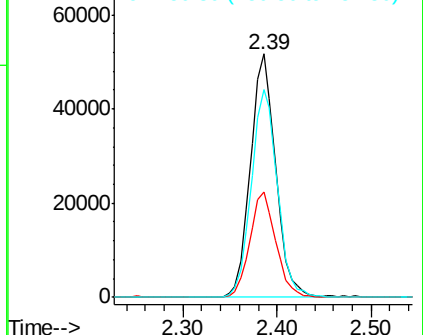
151 87.9 68.9 103.3



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: 17.352 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.00 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

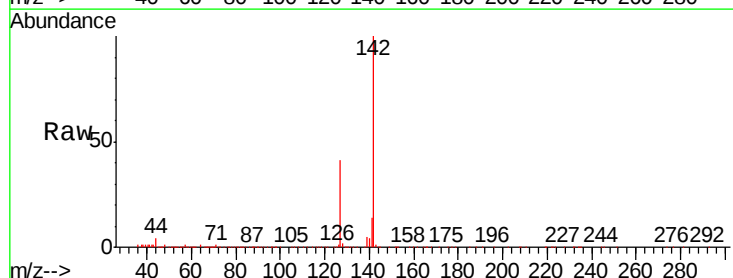
Tgt Ion:142 Resp: 127332

Ion Ratio Lower Upper

142 100

127 42.2 33.9 50.9

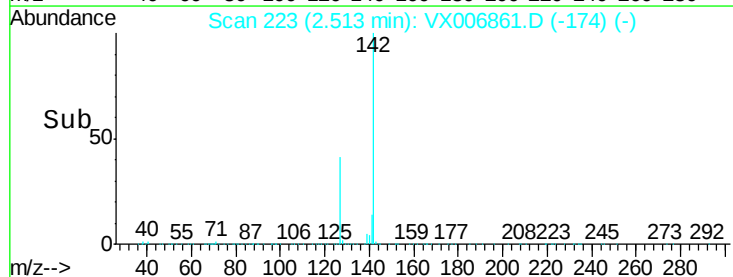
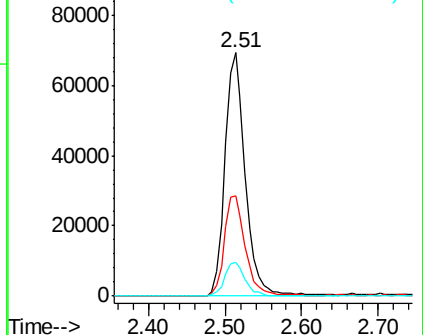
141 14.1 11.4 17.0

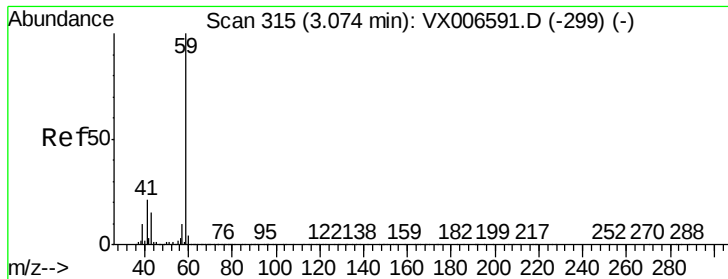


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

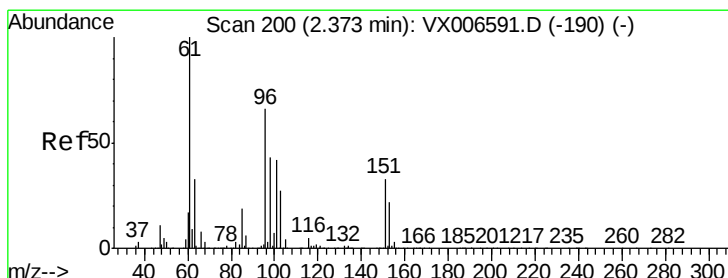
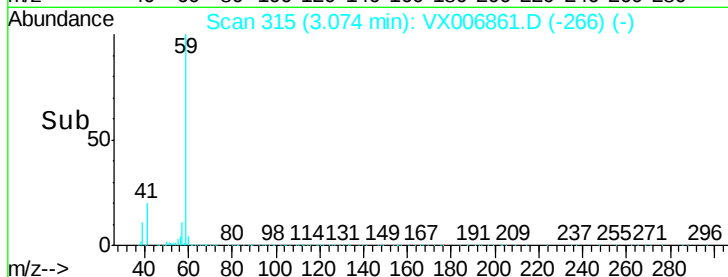
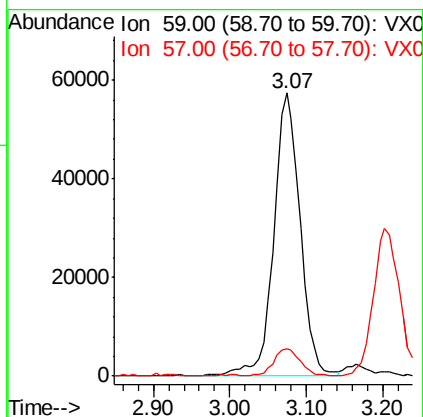
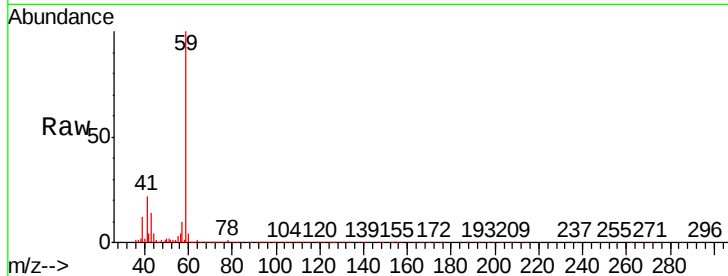




#11
Tert butyl alcohol
Concen: 104.752 ug/l
RT: 3.07 min Scan# 315
Delta R.T. 0.00 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

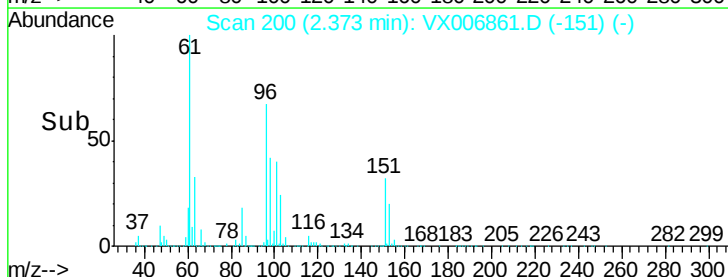
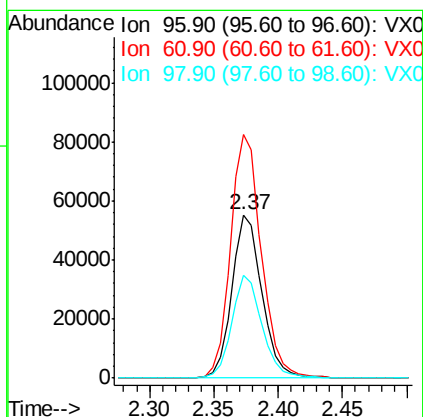
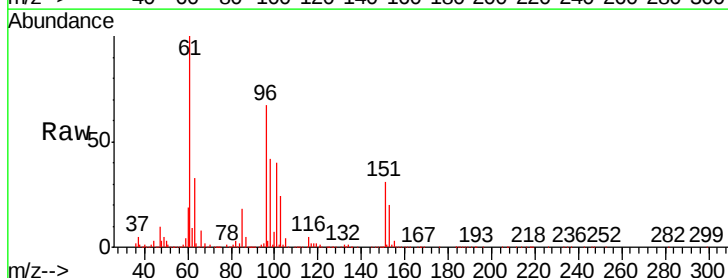
Instrument :
MSVOA_X
ClientSampleId :
VX1228MBS01

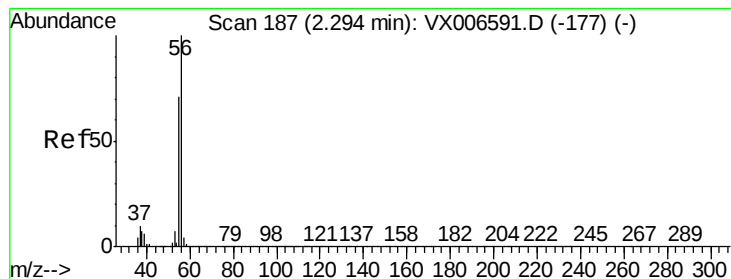
Tgt Ion: 59 Resp: 137076
Ion Ratio Lower Upper
59 100
57 9.6 8.5 12.7



#12
1,1-Dichloroethene
Concen: 18.558 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX006861.D
Acq: 28 Dec 2018 15:13

Tgt Ion: 96 Resp: 90211
Ion Ratio Lower Upper
96 100
61 148.9 121.4 182.2
98 63.0 51.9 77.9





#13

Acrolein

Concen: 93.658 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

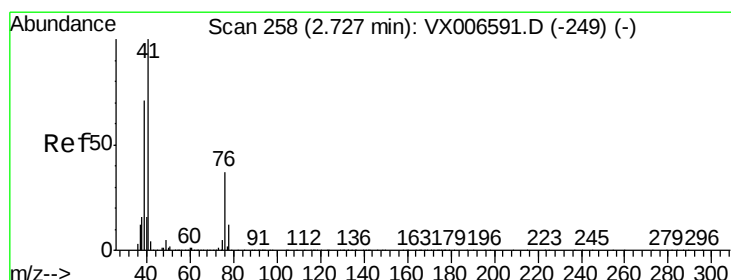
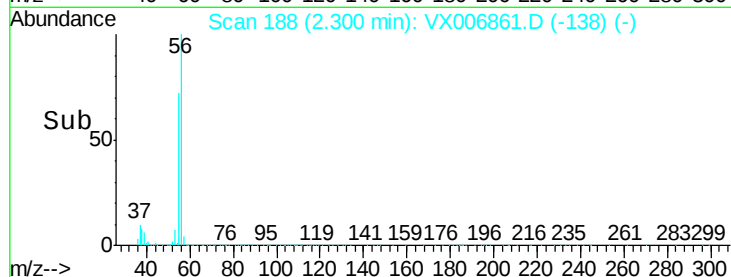
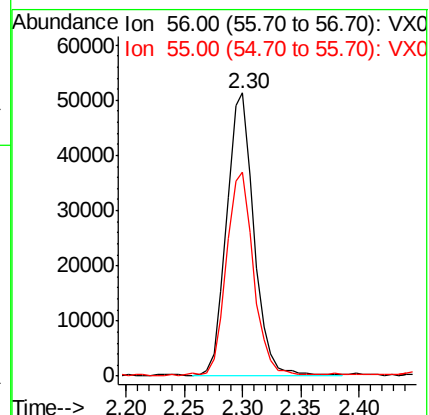
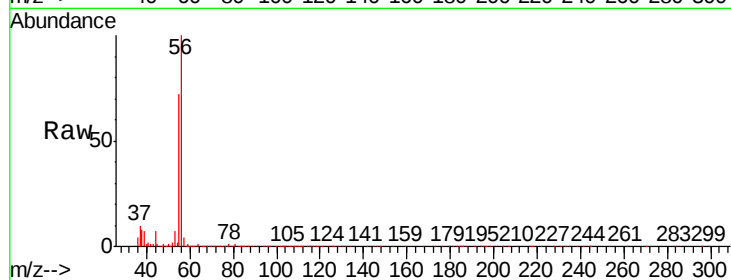
VX1228MBS01

Tgt Ion: 56 Resp: 82679

Ion Ratio Lower Upper

56 100

55 71.7 58.2 87.4



#14

Allyl chloride

Concen: 18.639 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

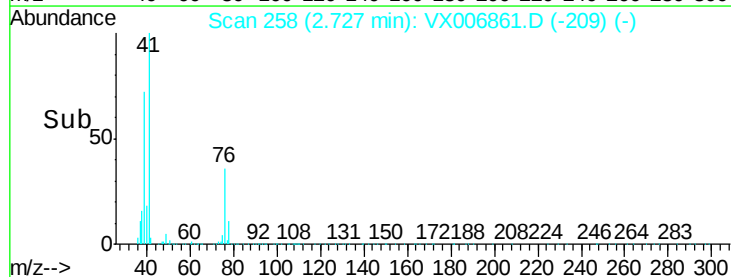
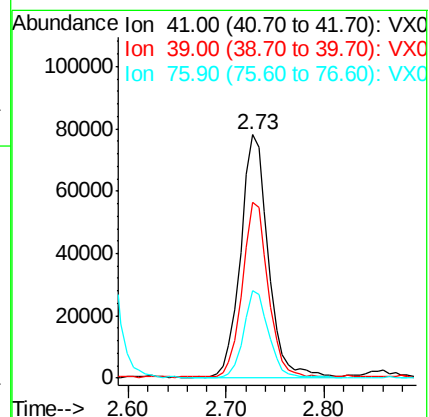
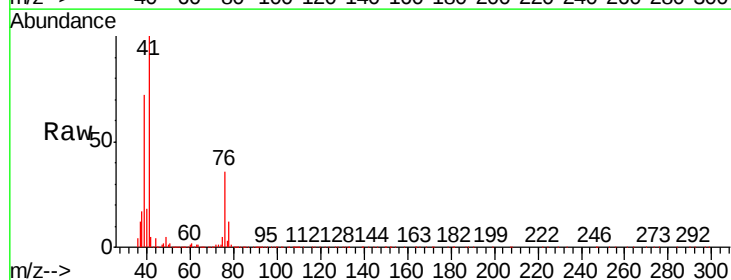
Tgt Ion: 41 Resp: 152503

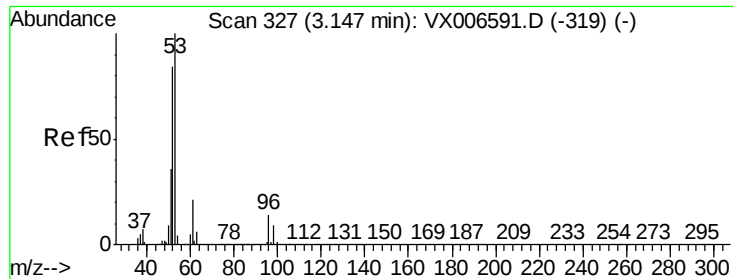
Ion Ratio Lower Upper

41 100

39 67.4 53.6 80.4

76 32.1 27.4 41.2





#15

Acrylonitrile

Concen: 101.766 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

VX1228MBS01

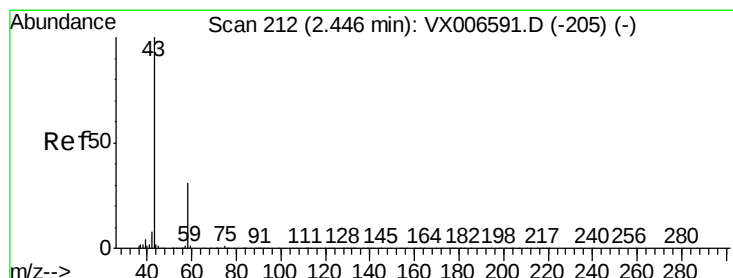
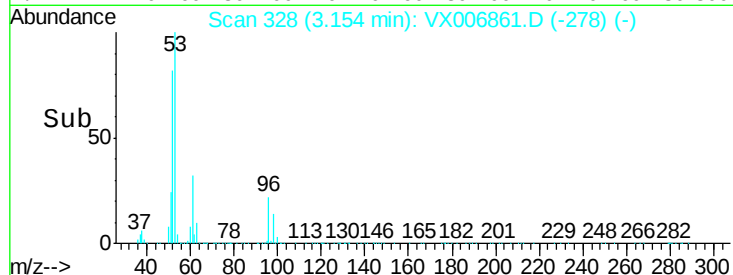
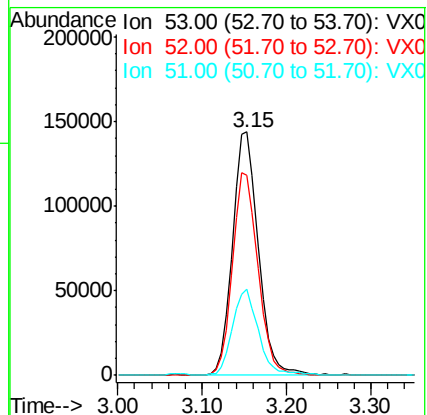
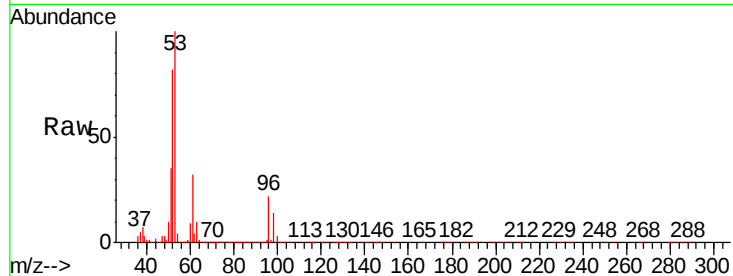
Tgt Ion: 53 Resp: 295675

Ion Ratio Lower Upper

53 100

52 82.4 66.0 99.0

51 35.6 28.6 42.8



#16

Acetone

Concen: 91.791 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006861.D

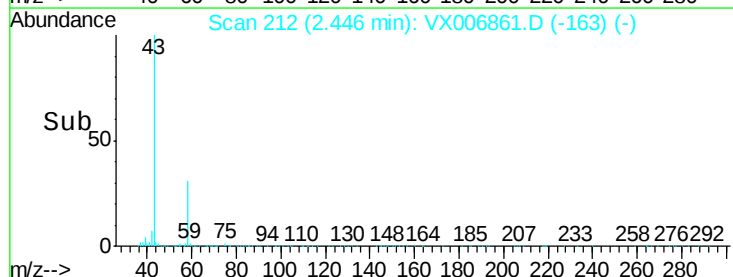
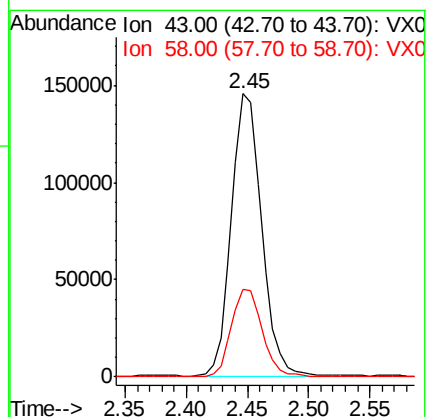
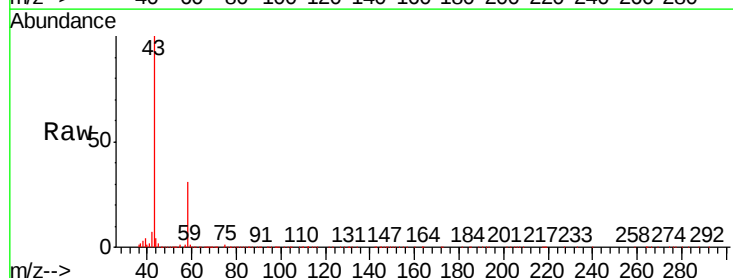
Acq: 28 Dec 2018 15:13

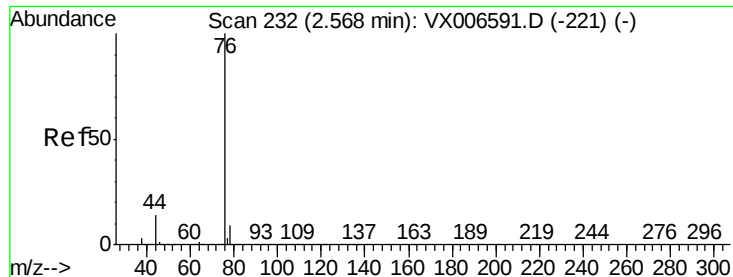
Tgt Ion: 43 Resp: 247274

Ion Ratio Lower Upper

43 100

58 30.7 25.0 37.6





#17

Carbon Disulfide

Concen: 14.482 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX006861.D

Acq: 28 Dec 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

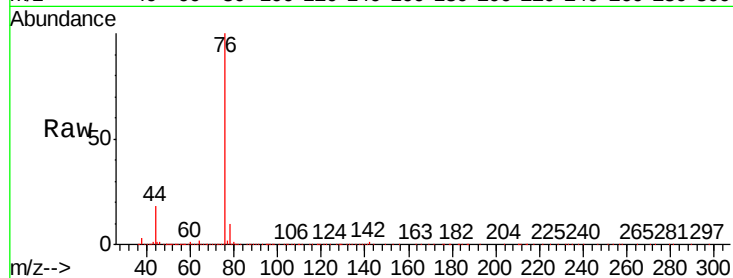
VX1228MBS01

Tgt Ion: 76 Resp: 186294

Ion Ratio Lower Upper

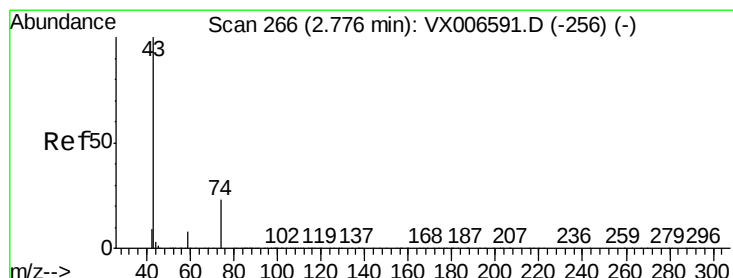
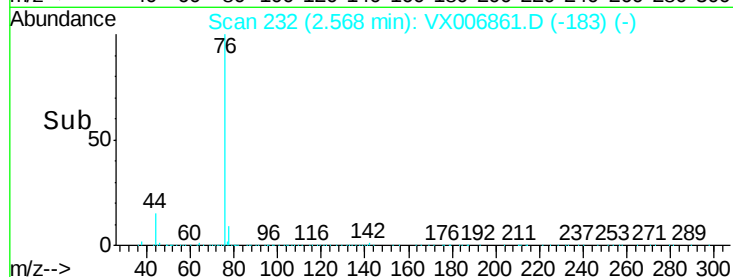
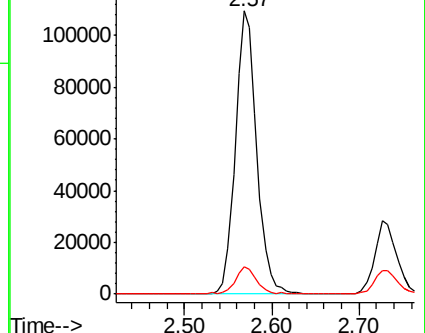
76 100

78 9.4 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 23.734 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006861.D

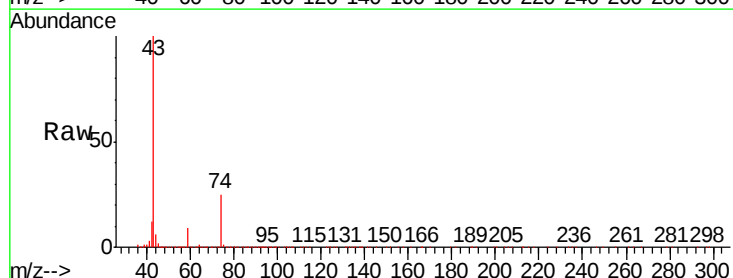
Acq: 28 Dec 2018 15:13

Tgt Ion: 43 Resp: 188008

Ion Ratio Lower Upper

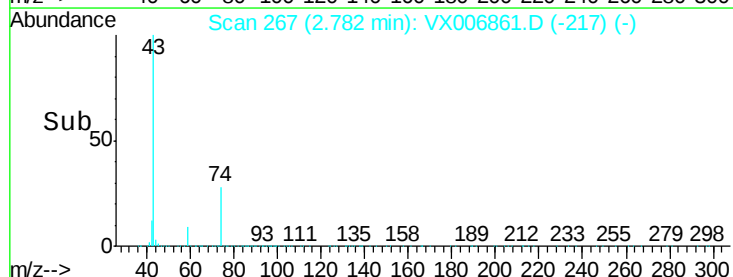
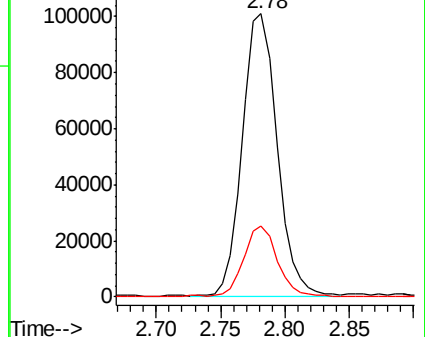
43 100

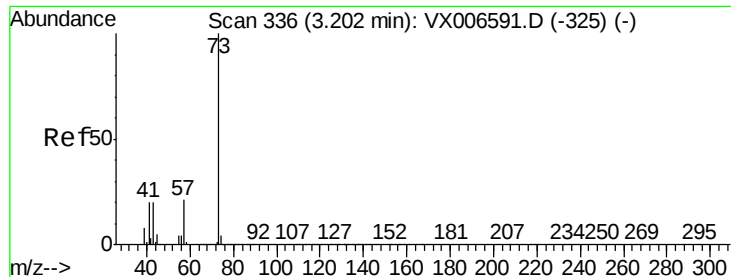
74 24.1 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



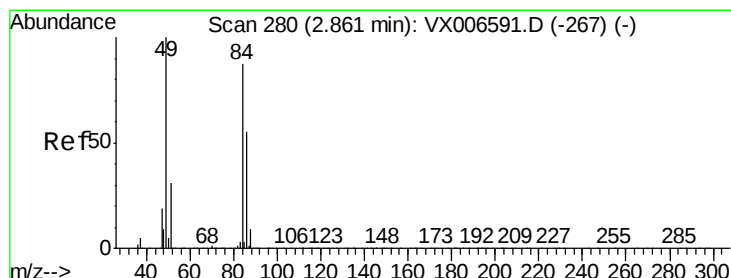
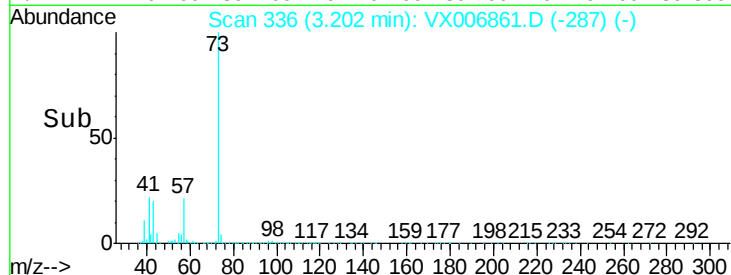
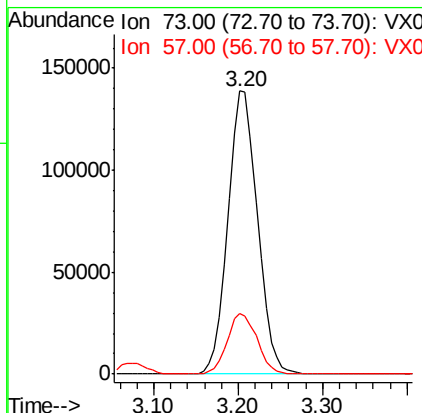
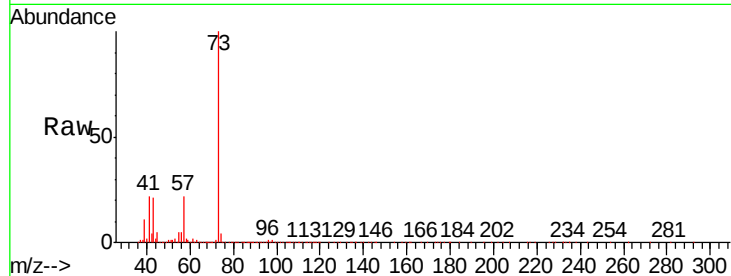


#19

Methyl tert-butyl Ether
 Concen: 20.478 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VX006861.D
 Acq: 28 Dec 2018 15:13

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1228MBS01

Tgt Ion: 73 Resp: 330385
 Ion Ratio Lower Upper
 73 100
 57 21.5 16.8 25.2



#20

Methylene Chloride
 Concen: 19.793 ug/l
 RT: 2.85 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX006861.D
 Acq: 28 Dec 2018 15:13

Tgt Ion: 84 Resp: 110256
 Ion Ratio Lower Upper
 84 100
 49 115.3 91.8 137.6
 51 36.7 28.5 42.7
 86 61.8 50.2 75.2

