

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090220\
 Data File : VX018220.D
 Acq On : 02 Sep 2020 17:19
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BFB31

Quant Time: Sep 03 05:31:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXML090220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 03 04:54:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.84	114	705937	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	668203	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	12.06	152	347550	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	247203	43.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.78%
7) Chloroethane-d5	1.70	69	184086	42.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.92%
11) 1,1-Dichloroethene-d2	2.35	63	496048	45.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.62%
21) 2-Butanone-d5	4.54	46	356255	90.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	90.34%
24) Chloroform-d	5.14	84	501273	48.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	6.03	65	351660	45.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.72%
32) Benzene-d6	6.05	84	934062	47.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.12%
36) 1,2-Dichloropropane-d6	7.37	67	296914	47.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.16%
41) Toluene-d8	8.70	98	901943	46.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.68%
43) trans-1,3-Dichloropropene-	8.99	79	164163	47.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.32%
47) 2-Hexanone-d5	9.43	63	269238	97.37	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.37%
57) 1,1,2,2-Tetrachloroethane-	11.23	84	403237	47.92	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.84%
64) 1,2-Dichlorobenzene-d4	12.36	152	360619	47.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	275868	45.934	ug/L 98
3) Chloromethane	1.31	50	249493	45.353	ug/L 94
5) Vinyl chloride	1.39	62	253409	46.328	ug/L 100
6) Bromomethane	1.64	94	162443	51.924	ug/L 97
8) Chloroethane	1.72	64	148407	46.142	ug/L 99
9) Trichlorofluoromethane	1.92	101	419973	46.257	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	238944	48.407	ug/L 97
12) 1,1-Dichloroethene	2.36	96	225514	48.552	ug/L 78
13) Acetone	2.43	43	207226	92.193	ug/L 99
14) Carbon disulfide	2.56	76	691882	47.037	ug/L 99
15) Methyl Acetate	2.75	43	245366	44.422	ug/L 98
16) Methylene chloride	2.84	84	239368	45.467	ug/L 95
17) trans-1,2-Dichloroethene	3.15	96	231296	46.444	ug/L 99
18) Methyl tert-butyl Ether	3.17	73	747657	48.070	ug/L 99
19) 1,1-Dichloroethane	3.67	63	434005	46.490	ug/L 98
20) cis-1,2-Dichloroethene	4.57	96	251035	47.151	ug/L # 96
22) 2-Butanone	4.64	43	342356	92.884	ug/L 99

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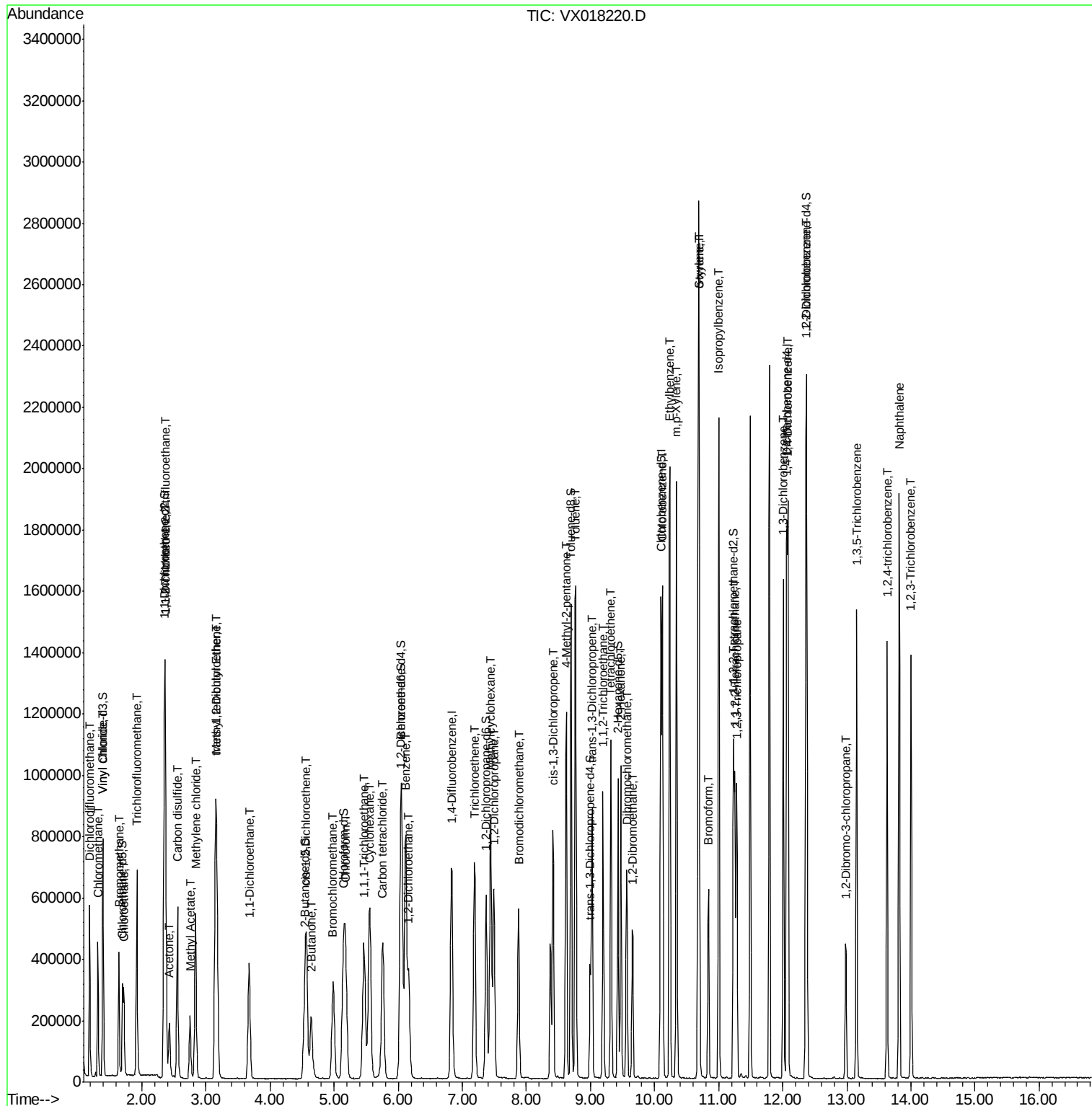
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.98	128	139281	46.744	ug/L	96
25) Chloroform	5.18	83	472334	44.233	ug/L	98
27) 1,2-Dichloroethane	6.17	62	381765	47.189	ug/L	99
29) Cyclohexane	5.56	56	364277	49.536	ug/L	99
30) 1,1,1-Trichloroethane	5.46	97	444344	48.424	ug/L	99
31) Carbon tetrachloride	5.76	117	403048	48.236	ug/L	99
33) Benzene	6.12	78	944447	48.852	ug/L	100
34) Trichloroethene	7.19	95	269214	49.615	ug/L	100
35) Methylcyclohexane	7.44	83	383187	50.792	ug/L	99
37) 1,2-Dichloropropane	7.49	63	248128	48.461	ug/L	99
38) Bromodichloromethane	7.88	83	356777	48.933	ug/L	97
39) cis-1,3-Dichloropropene	8.42	75	395768	49.568	ug/L	98
40) 4-Methyl-2-pentanone	8.62	43	681931	98.231	ug/L	99
42) Toluene	8.77	91	1024458	49.372	ug/L	100
44) trans-1,3-Dichloropropene	9.02	75	409452	48.755	ug/L	98
45) 1,1,2-Trichloroethane	9.20	97	239018	46.507	ug/L	94
46) Tetrachloroethene	9.32	164	214148	49.504	ug/L	95
48) 2-Hexanone	9.48	43	537658	95.809	ug/L	99
49) Dibromochloromethane	9.57	129	298612	47.410	ug/L	99
50) 1,2-Dibromoethane	9.65	107	260775	47.911	ug/L	97
51) Chlorobenzene	10.12	112	671779	47.537	ug/L	98
52) Ethylbenzene	10.24	91	1139984	49.276	ug/L	98
53) m,p-Xylene	10.34	106	428327	48.465	ug/L	96
54) o-xylene	10.68	106	417392	49.481	ug/L	100
55) Styrene	10.70	104	719596	49.386	ug/L	100
56) Isopropylbenzene	11.01	105	1125885	49.900	ug/L	100
58) 1,1,2,2-Tetrachloroethane	11.25	83	358878	47.551	ug/L	99
59) 1,2,3-Trichloropropane	11.28	75	301853	46.150	ug/L	98
61) Bromoform	10.84	173	219425	44.529	ug/L	97
62) 1,3-Dichlorobenzene	12.01	146	535566	46.918	ug/L	98
63) 1,4-Dichlorobenzene	12.08	146	542387	46.675	ug/L	99
65) 1,2-Dichlorobenzene	12.38	146	526264	47.858	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.98	75	93475	45.450	ug/L	89
67) 1,3,5-Trichlorobenzene	13.15	180	359927	48.322	ug/L	98
68) 1,2,4-trichlorobenzene	13.63	180	326743	47.541	ug/L	95
69) Naphthalene	13.82	128	1069167	49.195	ug/L	99
70) 1,2,3-Trichlorobenzene	14.01	180	333083	48.453	ug/L	99

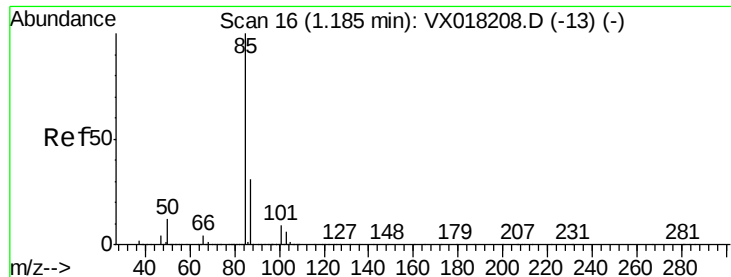
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 45.934 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

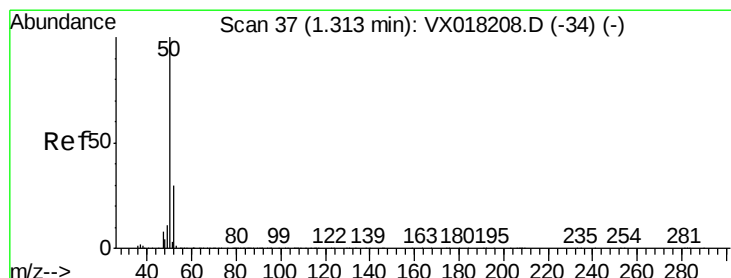
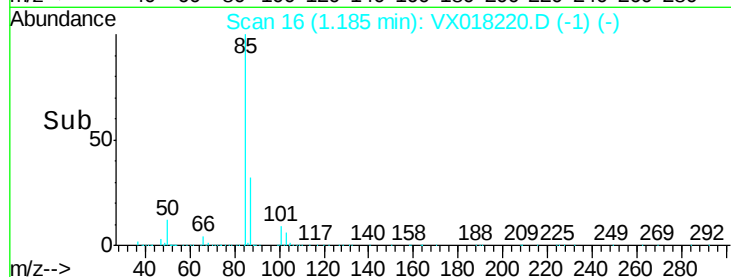
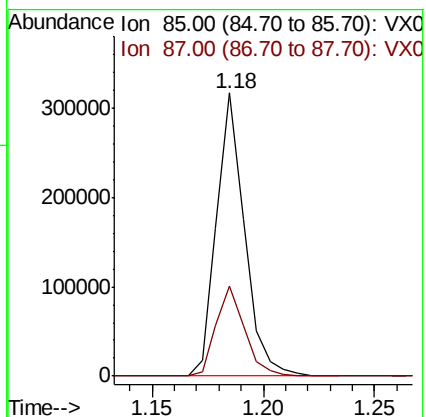
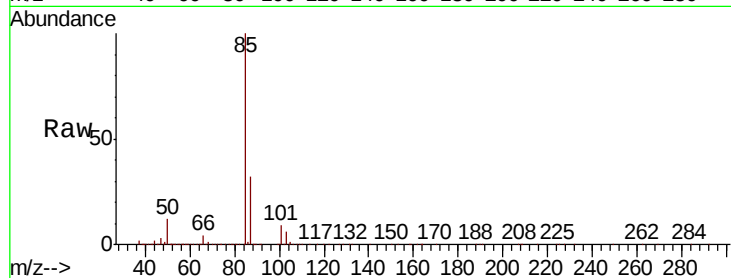
BFB31

Tot Ion: 85 Resp: 275868

Ion Ratio Lower Upper

85 100

87 32.6 25.2 37.8



#3

Chloromethane

Concen: 45.353 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018220.D

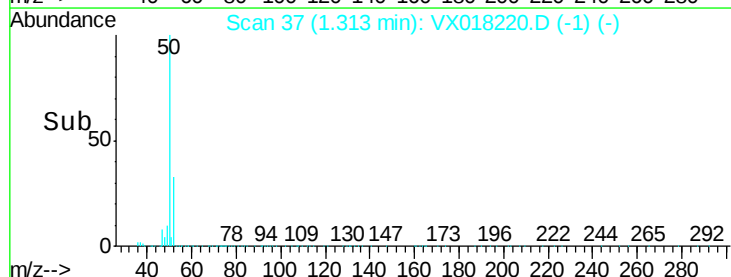
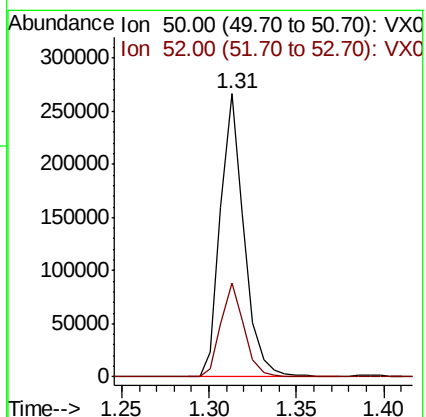
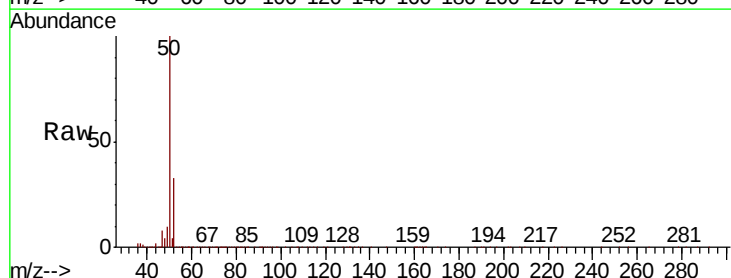
Acq: 02 Sep 2020 17:19

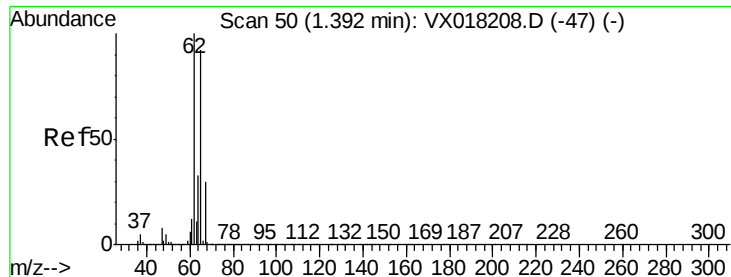
Tgt Ion: 50 Resp: 249493

Ion Ratio Lower Upper

50 100

52 33.2 21.0 39.0





#5

Vinyl chloride

Concen: 46.328 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

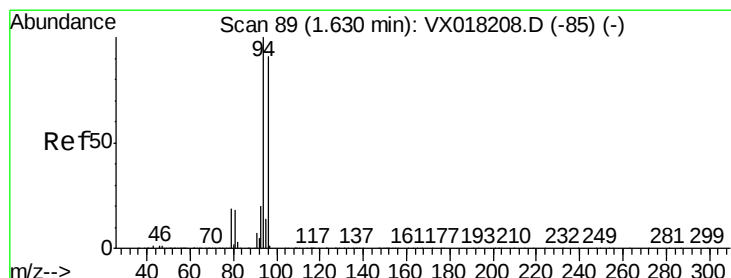
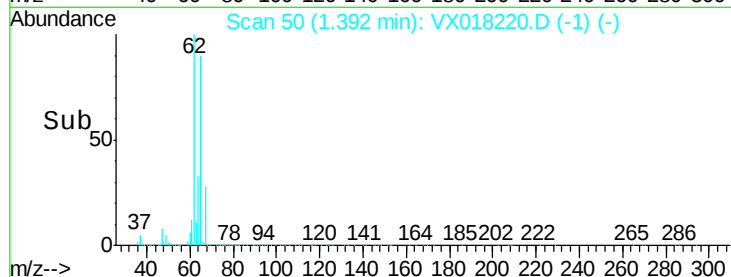
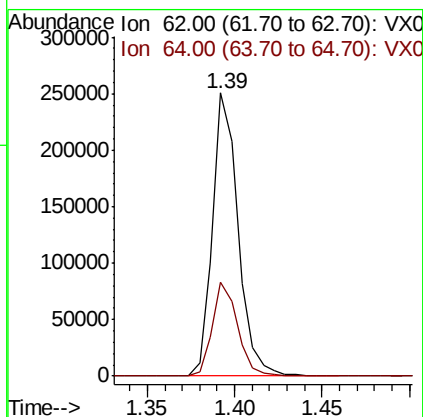
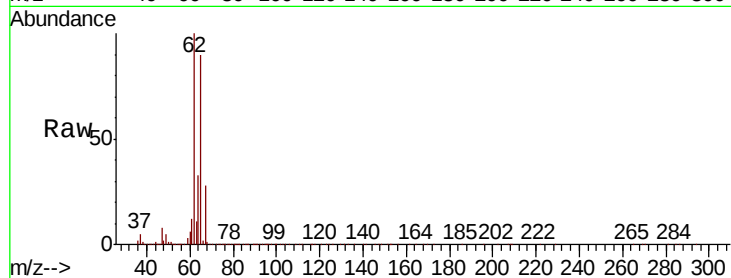
BFB31

Tot Ion: 62 Resp: 253409

Ion Ratio Lower Upper

62 100

64 33.0 23.2 43.2



#6

Bromomethane

Concen: 51.924 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018220.D

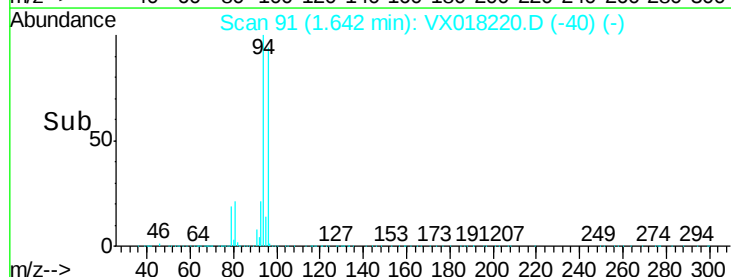
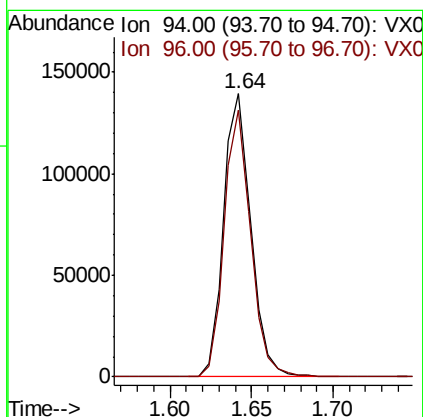
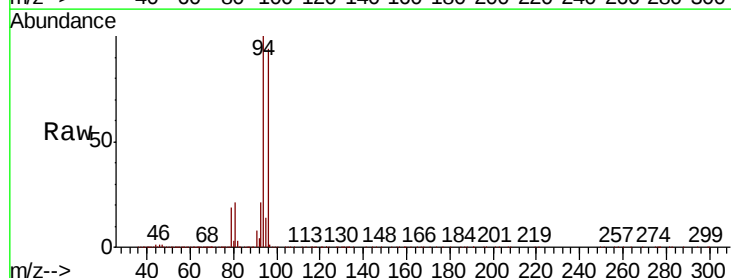
Acq: 02 Sep 2020 17:19

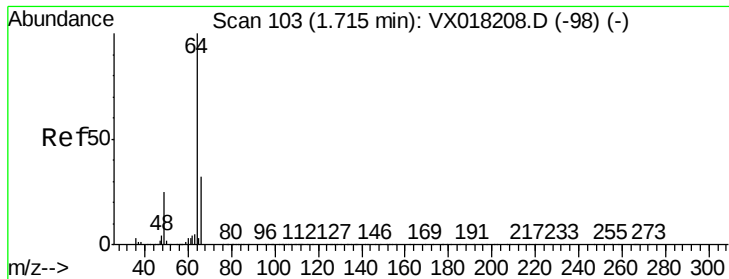
Tgt Ion: 94 Resp: 162443

Ion Ratio Lower Upper

94 100

96 94.3 63.9 118.7

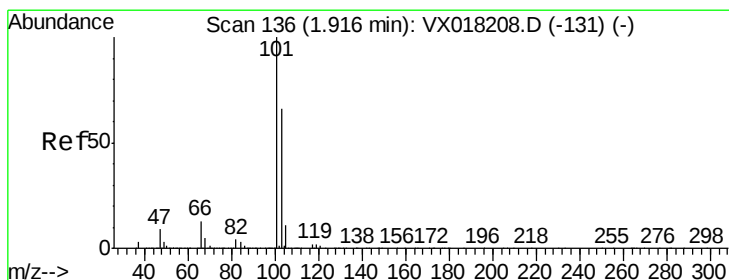
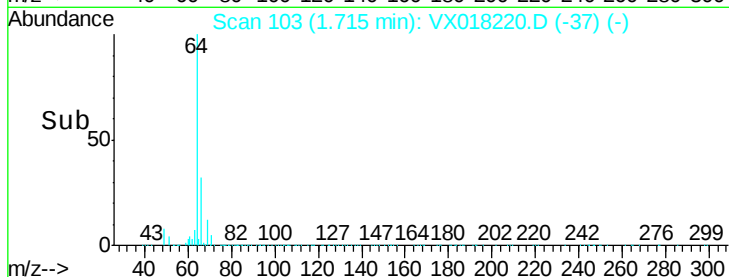
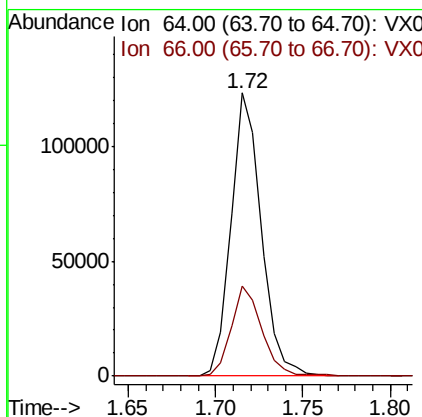
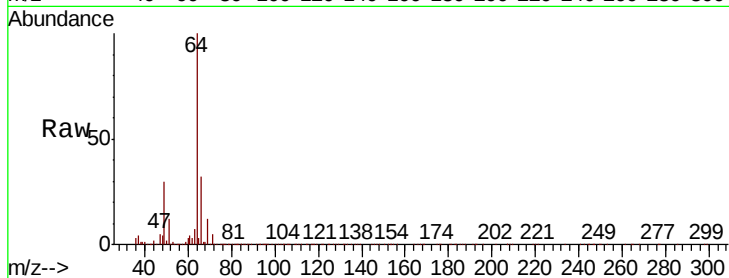




#8
Chloroethane
Concen: 46.142 ug/L
RT: 1.72 min Scan# 103
Delta R.T. 0.00 min
Lab File: VX018220.D
Acq: 02 Sep 2020 17:19

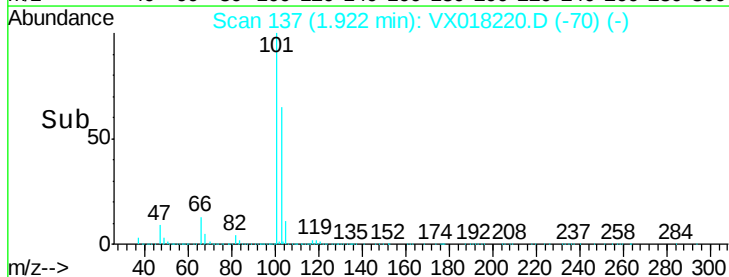
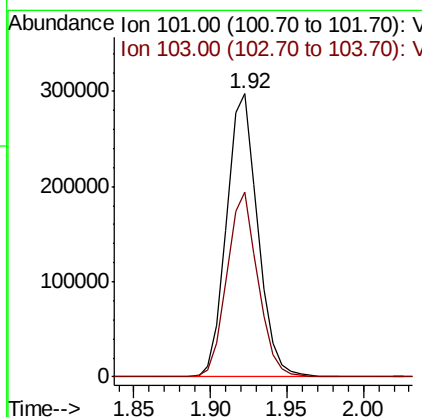
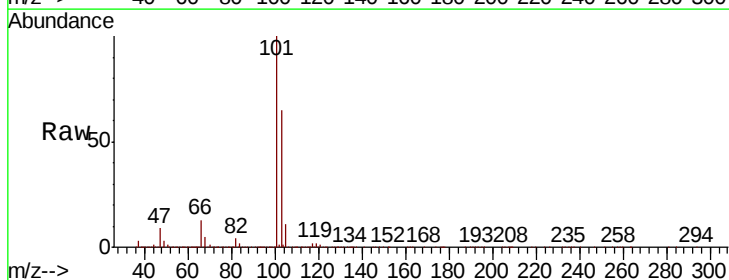
Instrument :
MSVOA_X
ClientSampled :
BFB31

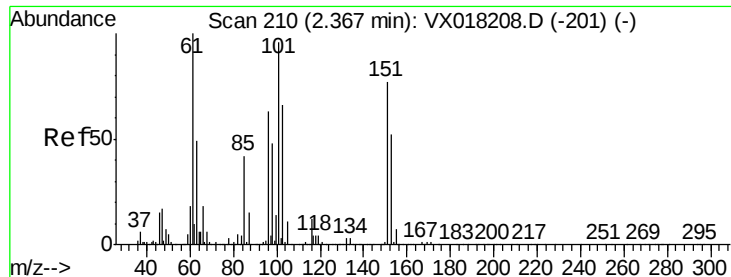
Tot Ion: 64 Resp: 148407
Ion Ratio Lower Upper
64 100
66 31.6 22.5 41.7



#9
Trichlorofluoromethane
Concen: 46.257 ug/L
RT: 1.92 min Scan# 137
Delta R.T. 0.01 min
Lab File: VX018220.D
Acq: 02 Sep 2020 17:19

Tgt Ion: 101 Resp: 419973
Ion Ratio Lower Upper
101 100
103 65.0 51.4 77.2





#10

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

Concen: 48.407 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

BFB31

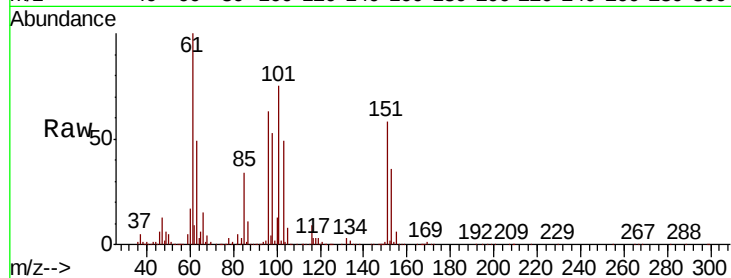
Tot Ion:101 Resp: 238944

Ion Ratio Lower Upper

101 100

85 43.9 35.8 53.6

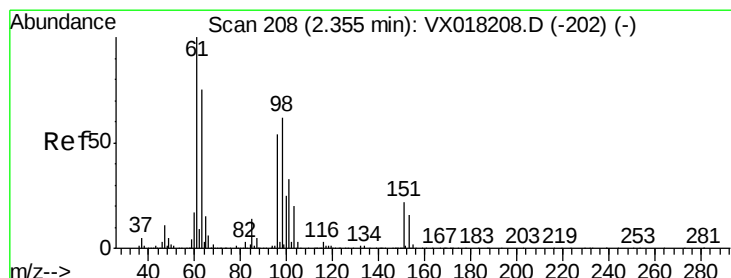
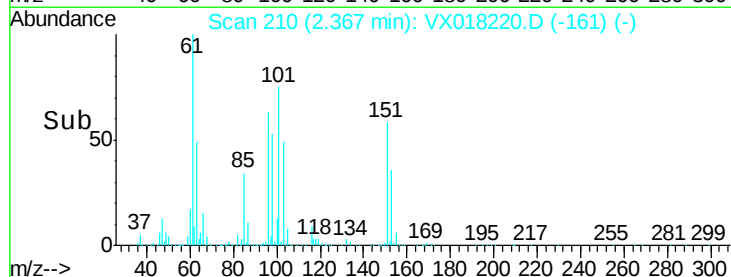
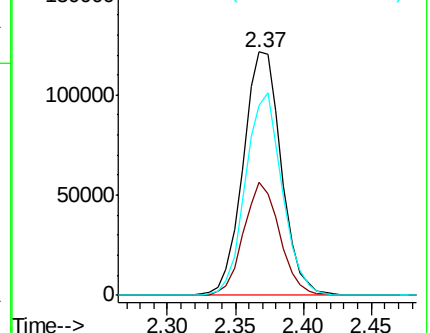
151 80.0 61.6 92.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 48.552 ug/L

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

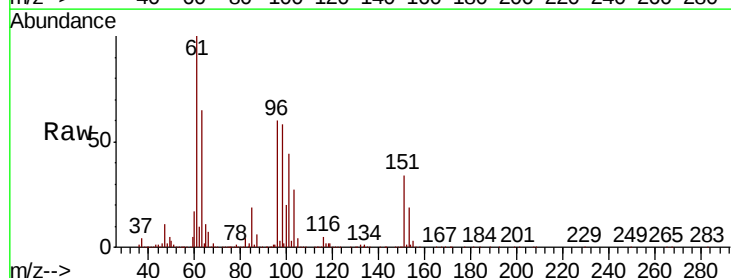
Tgt Ion: 96 Resp: 225514

Ion Ratio Lower Upper

96 100

61 165.7 130.5 242.5

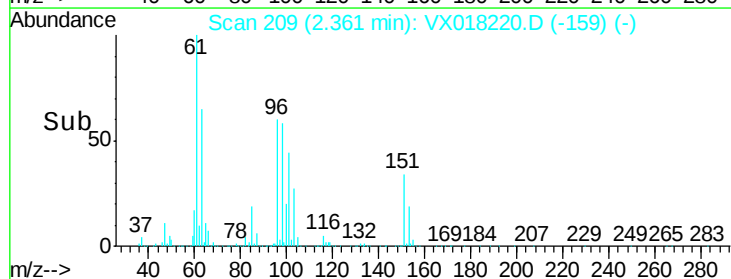
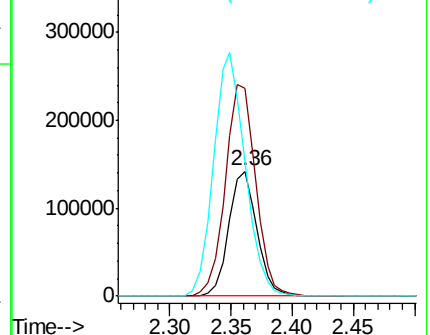
63 108.0 103.0 191.2

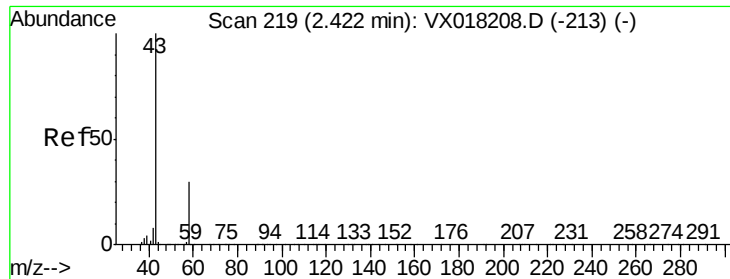


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 92.193 ug/L

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

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Acq: 02 Sep 2020 17:19

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ClientSampled :

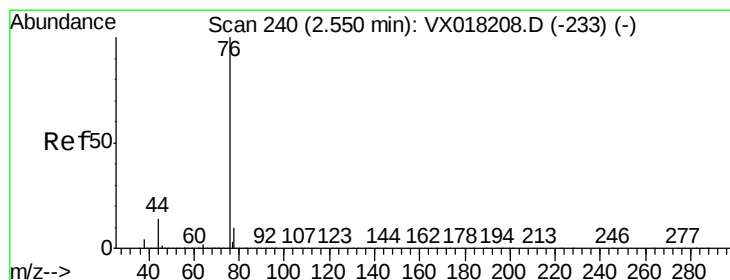
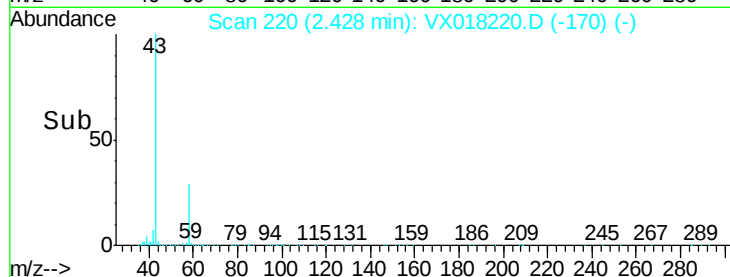
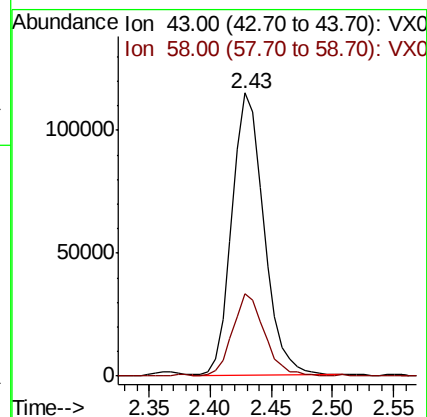
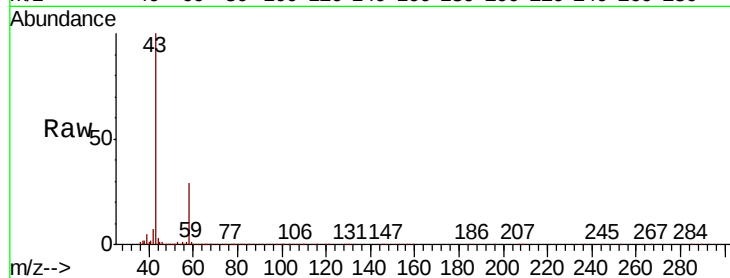
BFB31

Tot Ion: 43 Resp: 207226

Ion Ratio Lower Upper

43 100

58 29.0 0.0 59.2



#14

Carbon disulfide

Concen: 47.037 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018220.D

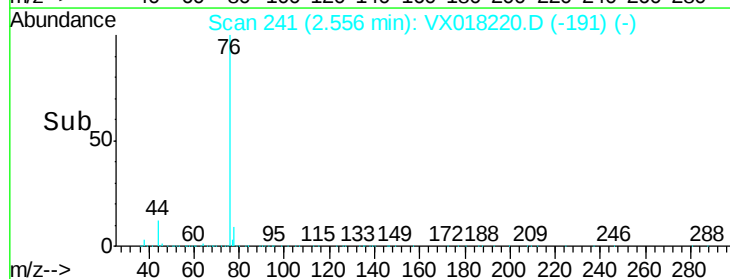
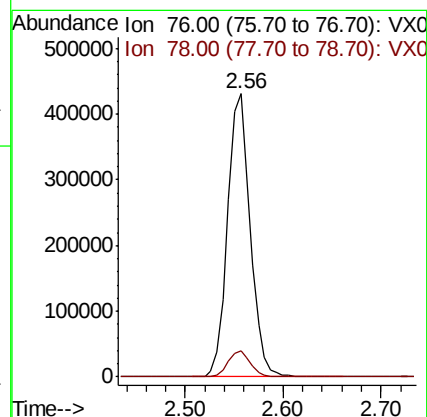
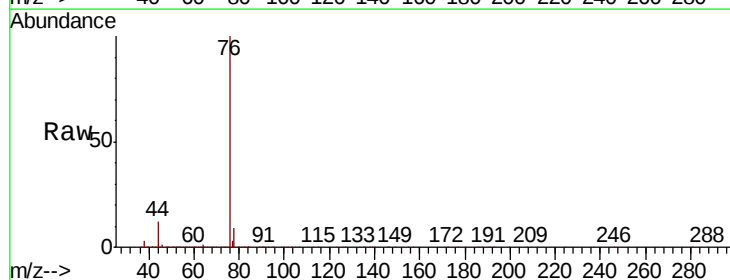
Acq: 02 Sep 2020 17:19

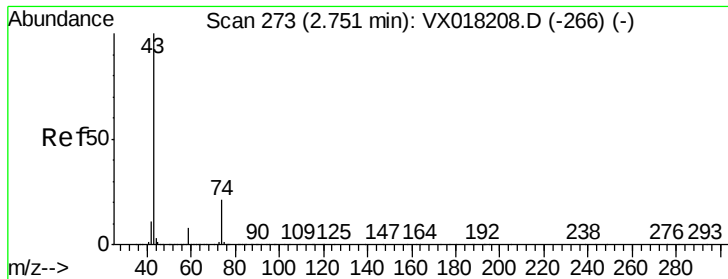
Tgt Ion: 76 Resp: 691882

Ion Ratio Lower Upper

76 100

78 9.1 7.7 11.5

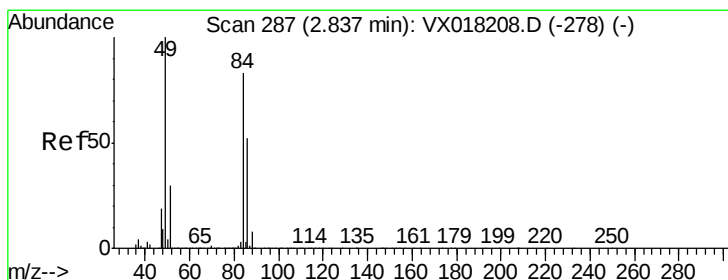
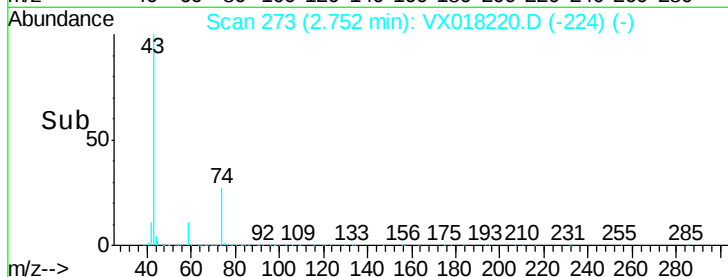
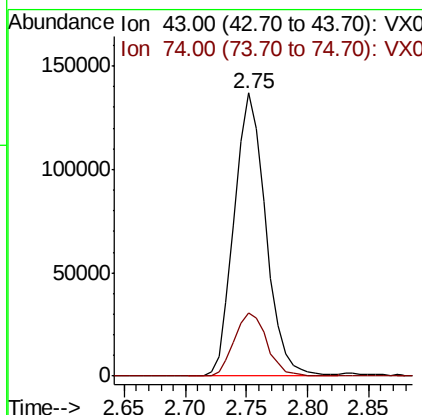
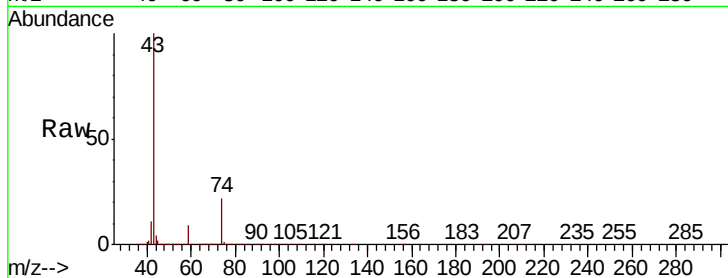




#15
Methvl Acetate
Concen: 44.422 ug/L
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX018220.D
Acq: 02 Sep 2020 17:19

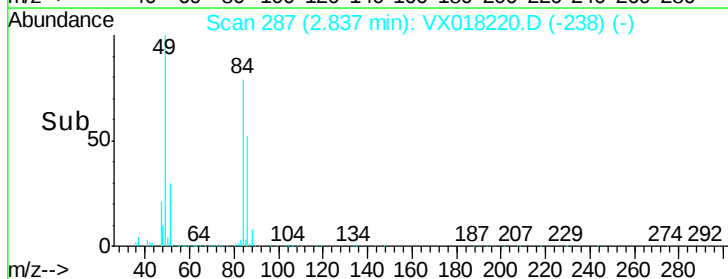
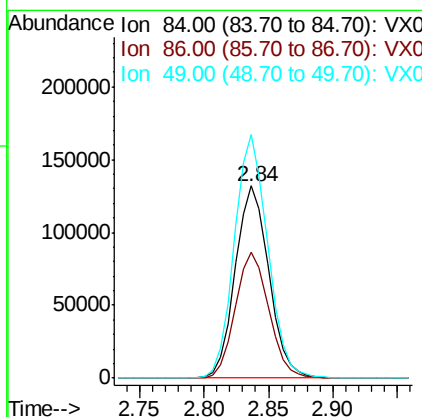
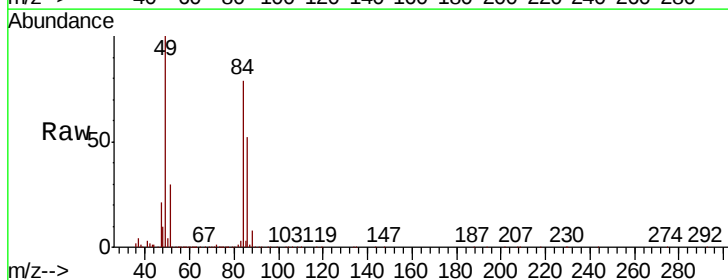
Instrument :
MSVOA_X
ClientSampleId :
BFB31

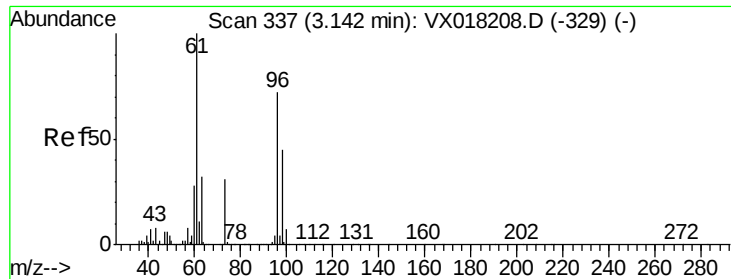
Tot Ion: 43 Resp: 245366
Ion Ratio Lower Upper
43 100
74 23.1 17.8 26.8



#16
Methylene chloride
Concen: 45.467 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX018220.D
Acq: 02 Sep 2020 17:19

Tgt Ion: 84 Resp: 239368
Ion Ratio Lower Upper
84 100
86 65.5 43.6 81.0
49 126.7 84.5 156.9





#17

trans-1,2-Dichloroethene

Concen: 46.444 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

BFB31

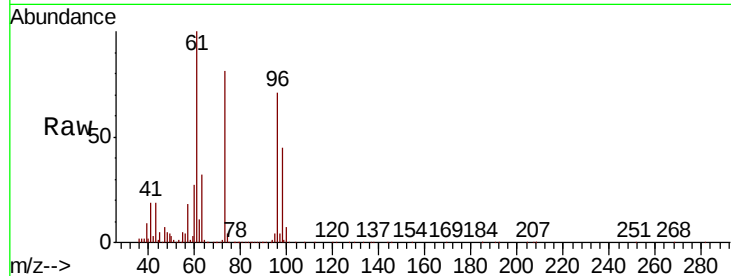
Tot Ion: 96 Resp: 231296

Ion Ratio Lower Upper

96 100

61 139.9 97.1 180.3

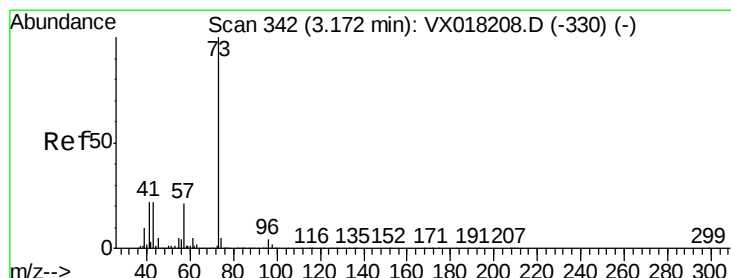
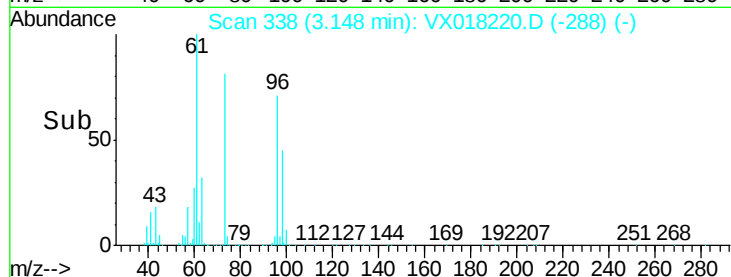
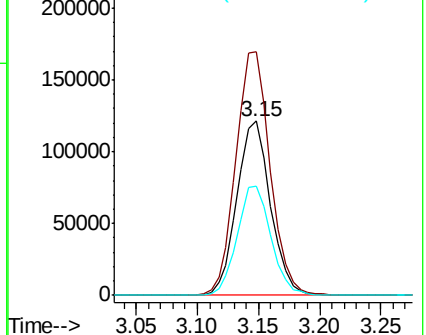
98 63.1 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#18

Methyl tert-butyl Ether

Concen: 48.070 ug/L

RT: 3.17 min Scan# 341

Delta R.T. -0.01 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

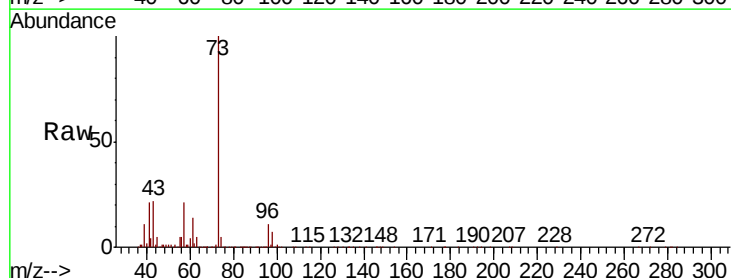
Tgt Ion: 73 Resp: 747657

Ion Ratio Lower Upper

73 100

43 22.0 17.4 26.2

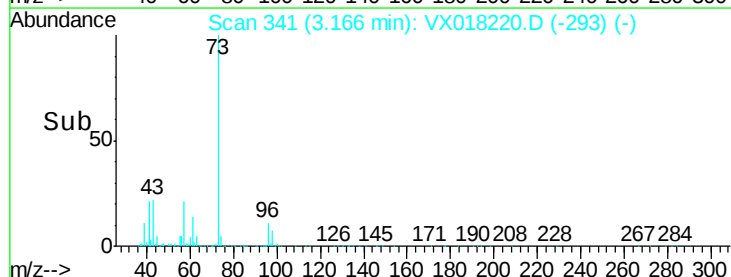
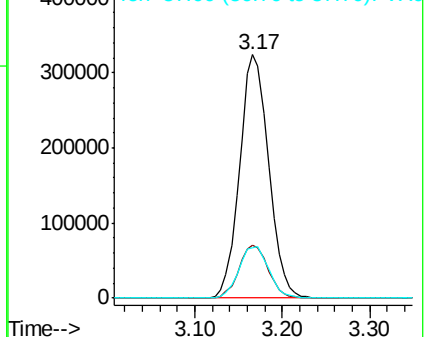
57 21.8 17.1 25.7

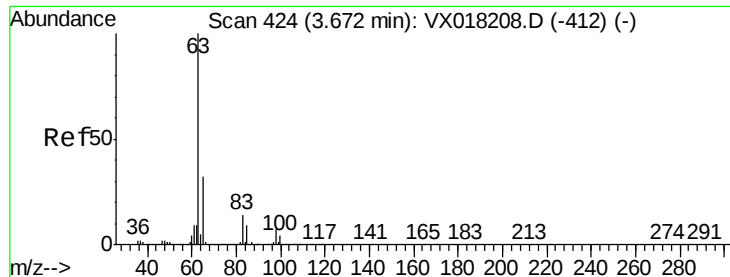


Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#19

1,1-Dichloroethane

Concen: 46.490 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

BFB31

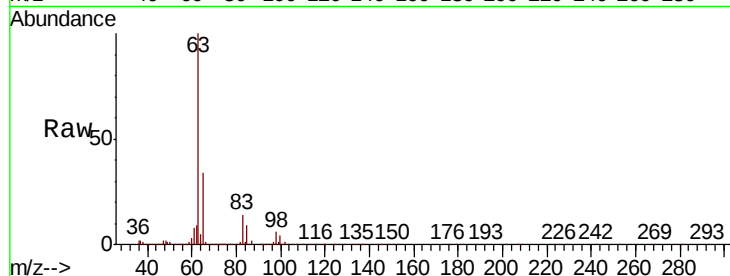
Tot Ion: 63 Resp: 434005

Ion Ratio Lower Upper

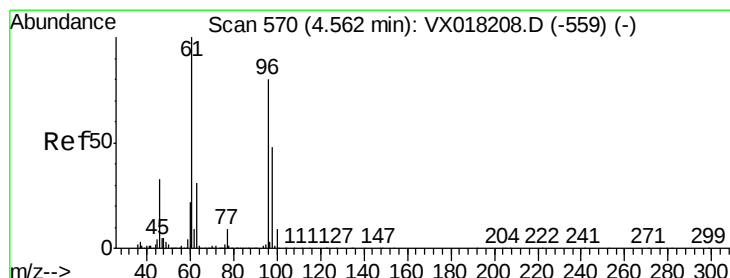
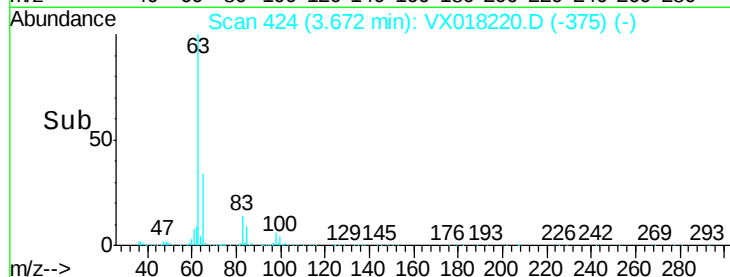
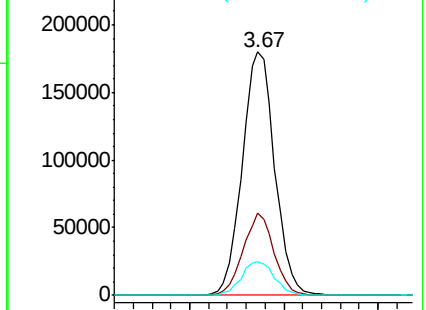
63 100

65 33.9 22.7 42.3

83 13.7 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VX0
Ion 65.00 (64.70 to 65.70): VX0
Ion 83.00 (82.70 to 83.70): VX0



#20

cis-1,2-Dichloroethene

Concen: 47.151 ug/L

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

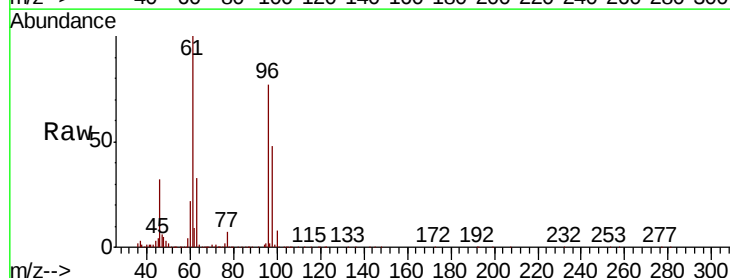
Tgt Ion: 96 Resp: 251035

Ion Ratio Lower Upper

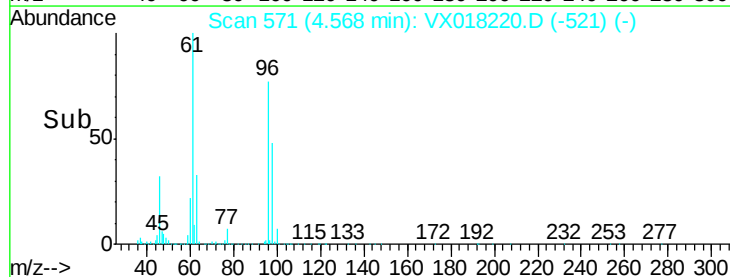
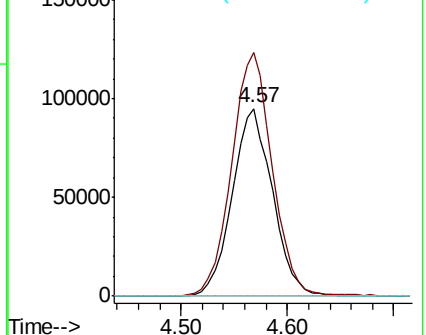
96 100

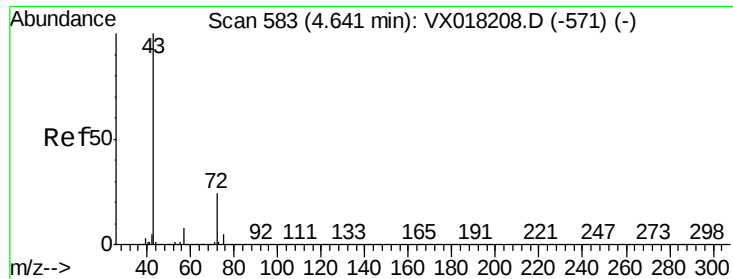
61 129.8 88.0 163.4

68 0.2 0.1 0.1#



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 68.00 (67.70 to 68.70): VX0





#22

2-Butanone

Concen: 92.884 ug/L

RT: 4.64 min Scan# 583

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

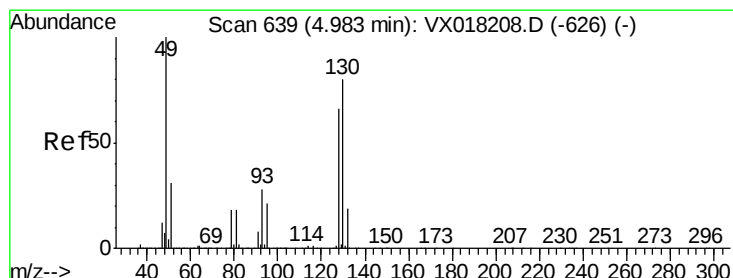
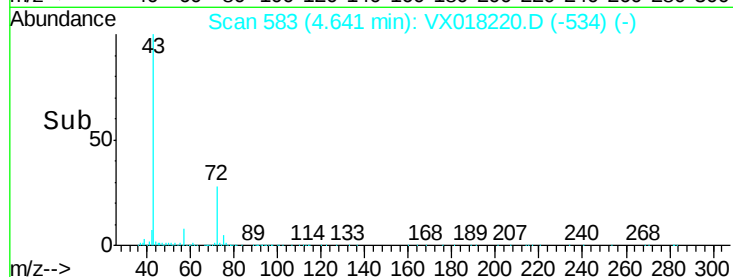
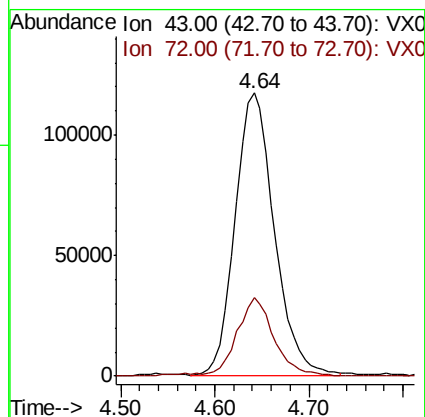
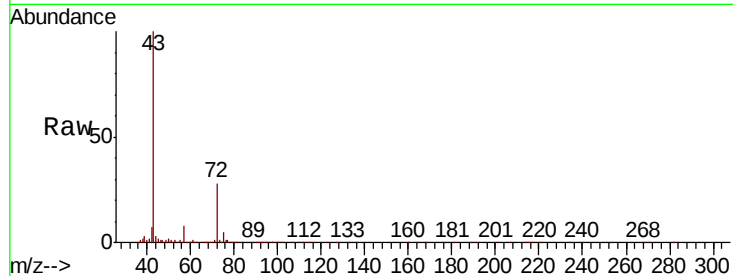
BFB31

Tot Ion: 43 Resp: 342356

Ion Ratio Lower Upper

43 100

72 25.8 12.7 38.1



#23

Bromochloromethane

Concen: 46.744 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX018220.D

Acq: 02 Sep 2020 17:19

Tgt Ion: 128 Resp: 139281

Ion Ratio Lower Upper

128 100

49 147.9 106.8 198.4

130 127.3 85.3 158.5

51 47.7 38.5 57.7

